

<210> 1614
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 1614
 Met Ala Val Ala Val Leu Leu Cys Gly Cys Ile Val Ala Thr Val Ser
 1 5 10 15
 Phe Phe Trp Glu Glu Ser Leu Thr Gln His Val Ala Gly Leu Leu Phe
 20 25 30
 Leu Met Thr Gly Ile Phe Cys Thr Ile Ser Leu Cys Thr Tyr Ala Ala
 35 40 45
 Ser Ile Ser Tyr Asp Leu Asn Arg Leu Pro Lys Leu Ile Tyr Ser Leu
 50 55 60
 Pro Ala Asp Val Glu His Gly Tyr Ser Trp Ser Ile Phe Cys Ala Trp
 65 70 75 80
 Cys Ser Leu Gly Phe Ile Val Ala Ala Gly Gly Leu Cys Ile Ala Tyr
 85 90 95
 Pro Phe Ile Ser Arg Thr Lys Ile Ala Gln Leu Lys Ser Gly Arg Asp
 100 105 110
 Ser Thr Val
 115

<210> 1615
 <211> 182
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

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<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1615
Met Val Ile Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys
  1             5             10             15

Lys Ala Asn Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu
          20             25             30

Gly Phe Leu Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala
      35             40             45

Phe Glu Lys Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu
      50             55             60

Lys Gly Asn Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr
      65             70             75             80

Val Val Phe His Gly Met Leu Xaa Ala Phe Ile Tyr Leu Ala Leu Gln
          85             90             95

Lys Arg Gln Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn
          100             105             110

Lys Ile Ser Asn Phe Leu Xaa Xaa Ile Ser Val Val Ser Phe Leu Thr
      115             120             125

Tyr Ser Ile Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu
      130             135             140

Leu His Pro Ser Xaa Ser Xaa Val Gln Xaa Leu Ala Phe Ile Leu Ile
      145             150             155             160

Arg Asn Ile Pro Gly Tyr Ala Arg Gln Phe Thr Val His Phe Leu Leu
          165             170             175

Gly Leu Glu Lys Phe His
      180

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<210> 1616
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1616

Ile Trp Ala Ile Asp Val Phe Ala Phe Cys Leu Ile Phe Phe Tyr Lys
1 5 10 15

Xaa Xaa Val Arg Gly Ile His Leu Phe Ile Cys Cys Thr Asp Leu Ile
20 25 30

Met Ile Leu Met Phe Glu Arg Leu His Leu Phe Ala Phe Thr Ile Cys
35 40 45

Gly Val Lys Tyr Ile Phe Cys Ser Gln Tyr Met Lys Ile Trp Ser Asn
50 55 60

Leu Asn Ser Lys Gln Thr Phe Cys Gly Cys Leu Phe Leu Tyr Trp Gln
65 70 75 80

Ser Ile Asn

<210> 1617

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1617

Met Val Ile Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys
1 5 10 15

Lys Ala Asn Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu
20 25 30

Gly Phe Leu Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala
 35 40 45
 Phe Glu Lys Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu
 50 55 60
 Lys Gly Asn Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr
 65 70 75 80
 Val Val Phe His Gly Met Leu Phe Ala Phe Ile Tyr Leu Ala Leu Gln
 85 90 95
 Lys Arg Gln Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn
 100 105 110
 Lys Ile Ser Asn Phe Leu Xaa Xaa Ile Ser Val Val Ser Phe Leu Thr
 115 120 125
 Tyr Ser Ile Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu
 130 135 140
 Leu His Pro Ser Xaa Ser Xaa Val Gln Xaa Leu Ala Phe Ile Leu Ile
 145 150 155 160
 Arg Asn Ile Pro Gly Tyr Ala Arg Gln Phe Thr Val His Phe Leu Leu
 165 170 175
 Gly Leu Glu Lys Phe His
 180

<210> 1618
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 1618
 Met Arg Ser Gln His Ile Thr Trp Cys Leu Leu Phe Ser Ser Pro Leu
 1 5 10 15
 Ala Thr Leu Pro Ala Ala Leu Pro Leu Gly Ala Cys Ala Ala Val Phe
 20 25 30
 Thr Val Ile Gly Ser Glu Lys Gln Ser Glu Cys Ser Leu Leu Arg Glu
 35 40 45
 Ser Arg Ala Lys Tyr His Gly Cys Thr His Gly Gln Ile Ser Ser Ser
 50 55 60
 Leu Lys Gln His Pro Arg Trp Met Tyr Ser His Gln Glu Asp Leu Lys
 65 70 75 80
 Val Trp Ser Leu Val Glu Lys Lys Gln Lys Gln Cys Met Gly Asp
 85 90 95

<210> 1619
 <211> 95

<212> PRT

<213> Homo sapiens

<400> 1619

Met Arg Ser Gln His Ile Thr Trp Cys Leu Leu Phe Ser Ser Pro Leu
1 5 10 15

Ala Thr Leu Pro Ala Ala Leu Pro Leu Gly Ala Cys Ala Ala Val Phe
20 25 30

Thr Val Ile Gly Ser Glu Lys Gln Ser Glu Cys Ser Leu Leu Arg Glu
35 40 45

Ser Arg Ala Lys Tyr His Gly Cys Thr His Gly Gln Ile Ser Ser Ser
50 55 60

Leu Lys Gln His Pro Arg Trp Met Tyr Ser His Gln Glu Asp Leu Lys
65 70 75 80

Val Trp Ser Leu Val Glu Lys Lys Gln Lys Gln Cys Met Gly Asp
85 90 95

<210> 1620

<211> 706

<212> PRT

<213> Homo sapiens

<400> 1620

Met Leu His Ala Leu Gln His Pro Cys Ile Val Ala Leu Ile Gly Ile
1 5 10 15

Ser Ile His Pro Leu Cys Phe Ala Leu Glu Leu Ala Pro Leu Ser Ser
20 25 30

Leu Asn Thr Val Leu Ser Glu Asn Ala Arg Asp Ser Ser Phe Ile Pro
35 40 45

Leu Gly His Met Leu Thr Gln Lys Ile Ala Tyr Gln Ile Ala Ser Gly
50 55 60

Leu Ala Tyr Leu His Lys Lys Asn Ile Ile Phe Cys Asp Leu Lys Ser
65 70 75 80

Asp Asn Ile Leu Val Trp Ser Leu Asp Val Lys Glu His Ile Asn Ile
85 90 95

Lys Leu Ser Asp Tyr Gly Ile Ser Arg Gln Ser Phe His Glu Gly Ala
100 105 110

Leu Gly Val Glu Gly Thr Pro Gly Tyr Gln Ala Pro Glu Ile Arg Pro
115 120 125

Arg Ile Val Tyr Asp Glu Lys Val Asp Met Phe Ser Tyr Gly Met Val
130 135 140

Leu Tyr Glu Leu Leu Ser Gly Gln Arg Pro Ala Leu Gly His His Gln
145 150 155 160

Leu Gln Ile Ala Lys Lys Leu Ser Lys Gly Ile Arg Pro Val Leu Gly
 165 170 175
 Gln Pro Glu Glu Val Gln Phe Arg Arg Leu Gln Ala Leu Met Met Glu
 180 185 190
 Cys Trp Asp Thr Lys Pro Glu Lys Arg Pro Leu Ala Leu Ser Val Val
 195 200 205
 Ser Gln Met Lys Asp Pro Thr Phe Ala Thr Phe Met Tyr Glu Leu Cys
 210 215 220
 Cys Gly Lys Gln Thr Ala Phe Phe Ser Ser Gln Gly Gln Glu Tyr Thr
 225 230 235 240
 Val Val Phe Trp Asp Gly Lys Glu Glu Ser Arg Asn Tyr Thr Val Val
 245 250 255
 Asn Thr Glu Lys Gly Leu Met Glu Val Gln Arg Met Cys Cys Pro Gly
 260 265 270
 Met Lys Val Ser Cys Gln Leu Gln Val Gln Arg Ser Leu Trp Thr Ala
 275 280 285
 Thr Glu Asp Gln Lys Ile Tyr Ile Tyr Thr Leu Lys Gly Met Cys Pro
 290 295 300
 Leu Asn Thr Pro Gln Gln Ala Leu Asp Thr Pro Ala Val Val Thr Cys
 305 310 315 320
 Phe Leu Ala Val Pro Val Ile Lys Lys Asn Ser Tyr Leu Val Leu Ala
 325 330 335
 Gly Leu Ala Asp Gly Leu Val Ala Val Phe Pro Val Val Arg Gly Thr
 340 345 350
 Pro Lys Asp Ser Cys Ser Tyr Leu Cys Ser His Thr Ala Asn Arg Ser
 355 360 365
 Lys Phe Ser Ile Ala Asp Glu Asp Ala Arg Gln Asn Pro Tyr Pro Val
 370 375 380
 Lys Ala Met Glu Val Val Asn Ser Gly Ser Glu Val Trp Tyr Ser Asn
 385 390 395 400
 Gly Pro Gly Leu Leu Val Ile Asp Cys Ala Ser Leu Glu Ile Cys Arg
 405 410 415
 Arg Leu Glu Pro Tyr Met Ala Pro Ser Met Val Thr Ser Val Val Cys
 420 425 430
 Ser Ser Glu Gly Arg Gly Glu Glu Val Val Trp Cys Leu Asp Asp Lys
 435 440 445
 Ala Asn Ser Leu Val Met Tyr His Ser Thr Thr Tyr Gln Leu Cys Ala
 450 455 460
 Arg Tyr Phe Cys Gly Val Pro Ser Pro Leu Arg Asp Met Phe Pro Val
 465 470 475 480

Arg Pro Leu Asp Thr Glu Pro Pro Ala Ala Ser His Thr Ala Asn Pro
 485 490 495
 Lys Val Pro Glu Gly Asp Ser Ile Ala Asp Val Ser Ile Met Tyr Ser
 500 505 510
 Glu Glu Leu Gly Thr Gln Ile Leu Ile His Gln Glu Ser Leu Thr Asp
 515 520 525
 Tyr Cys Ser Met Ser Ser Tyr Ser Ser Ser Pro Pro Arg Gln Ala Ala
 530 535 540
 Arg Ser Pro Ser Ser Leu Pro Ser Ser Pro Ala Ser Ser Ser Ser Val
 545 550 555 560
 Pro Phe Ser Thr Asp Cys Glu Asp Ser Asp Met Leu His Thr Pro Gly
 565 570 575
 Ala Ala Ser Asp Arg Ser Glu His Asp Leu Thr Pro Met Asp Gly Glu
 580 585 590
 Thr Phe Ser Gln His Leu Gln Ala Val Lys Ile Leu Ala Val Arg Asp
 595 600 605
 Leu Ile Trp Val Pro Arg Arg Gly Gly Asp Val Ile Val Ile Gly Leu
 610 615 620
 Glu Lys Asp Ser Glu Ala Gln Arg Gly Arg Val Ile Ala Val Leu Lys
 625 630 635 640
 Ala Arg Glu Leu Thr Pro His Gly Val Leu Val Asp Ala Ala Val Val
 645 650 655
 Ala Lys Asp Thr Val Val Cys Thr Phe Glu Asn Glu Asn Thr Glu Trp
 660 665 670
 Cys Leu Ala Val Trp Arg Gly Trp Gly Ala Arg Glu Phe Asp Ile Phe
 675 680 685
 Tyr Gln Ser Tyr Glu Glu Leu Gly Arg Leu Glu Ala Cys Thr Arg Lys
 690 695 700
 Arg Arg
 705

<210> 1621

<211> 706

<212> PRT

<213> Homo sapiens

<400> 1621

Met Leu His Ala Leu Gln His Pro Cys Ile Val Ala Leu Ile Gly Ile
 1 5 10 15

Ser Ile His Pro Leu Cys Phe Ala Leu Glu Leu Ala Pro Leu Ser Ser
 20 25 30

Leu Asn Thr Val Leu Ser Glu Asn Ala Arg Asp Ser Ser Phe Ile Pro

1007

0963245 041204

35

40

45

Leu Gly His Met Leu Thr Gln Lys Ile Ala Tyr Gln Ile Ala Ser Gly
50 55 60

Leu Ala Tyr Leu His Lys Lys Asn Ile Ile Phe Cys Asp Leu Lys Ser
65 70 75 80

Asp Asn Ile Leu Val Trp Ser Leu Asp Val Lys Glu His Ile Asn Ile
85 90 95

Lys Leu Ser Asp Tyr Gly Ile Ser Arg Gln Ser Phe His Glu Gly Ala
100 105 110

Leu Gly Val Glu Gly Thr Pro Gly Tyr Gln Ala Pro Glu Ile Arg Pro
115 120 125

Arg Ile Val Tyr Asp Glu Lys Val Asp Met Phe Ser Tyr Gly Met Val
130 135 140

Leu Tyr Glu Leu Leu Ser Gly Gln Arg Pro Ala Leu Gly His His Gln
145 150 155 160

Leu Gln Ile Ala Lys Lys Leu Ser Lys Gly Ile Arg Pro Val Leu Gly
165 170 175

Gln Pro Glu Glu Val Gln Phe Arg Arg Leu Gln Ala Leu Met Met Glu
180 185 190

Cys Trp Asp Thr Lys Pro Glu Lys Arg Pro Leu Ala Leu Ser Val Val
195 200 205

Ser Gln Met Lys Asp Pro Thr Phe Ala Thr Phe Met Tyr Glu Leu Cys
210 215 220

Cys Gly Lys Gln Thr Ala Phe Phe Ser Ser Gln Gly Gln Glu Tyr Thr
225 230 235 240

Val Val Phe Trp Asp Gly Lys Glu Glu Ser Arg Asn Tyr Thr Val Val
245 250 255

Asn Thr Glu Lys Gly Leu Met Glu Val Gln Arg Met Cys Cys Pro Gly
260 265 270

Met Lys Val Ser Cys Gln Leu Gln Val Gln Arg Ser Leu Trp Thr Ala
275 280 285

Thr Glu Asp Gln Lys Ile Tyr Ile Tyr Thr Leu Lys Gly Met Cys Pro
290 295 300

Leu Asn Thr Pro Gln Gln Ala Leu Asp Thr Pro Ala Val Val Thr Cys
305 310 315 320

Phe Leu Ala Val Pro Val Ile Lys Lys Asn Ser Tyr Leu Val Leu Ala
325 330 335

Gly Leu Ala Asp Gly Leu Val Ala Val Phe Pro Val Val Arg Gly Thr
340 345 350

Pro Lys Asp Ser Cys Ser Tyr Leu Cys Ser His Thr Ala Asn Arg Ser

1008

355	360	365
Lys Phe Ser Ile Ala Asp Glu Asp Ala Arg Gln Asn Pro Tyr Pro Val		
370	375	380
Lys Ala Met Glu Val Val Asn Ser Gly Ser Glu Val Trp Tyr Ser Asn		
385	390	395 400
Gly Pro Gly Leu Leu Val Ile Asp Cys Ala Ser Leu Glu Ile Cys Arg		
	405	410 415
Arg Leu Glu Pro Tyr Met Ala Pro Ser Met Val Thr Ser Val Val Cys		
	420	425 430
Ser Ser Glu Gly Arg Gly Glu Glu Val Val Trp Cys Leu Asp Asp Lys		
	435	440 445
Ala Asn Ser Leu Val Met Tyr His Ser Thr Thr Tyr Gln Leu Cys Ala		
	450	455 460
Arg Tyr Phe Cys Gly Val Pro Ser Pro Leu Arg Asp Met Phe Pro Val		
	465	470 475 480
Arg Pro Leu Asp Thr Glu Pro Pro Ala Ala Ser His Thr Ala Asn Pro		
	485	490 495
Lys Val Pro Glu Gly Asp Ser Ile Ala Asp Val Ser Ile Met Tyr Ser		
	500	505 510
Glu Glu Leu Gly Thr Gln Ile Leu Ile His Gln Glu Ser Leu Thr Asp		
	515	520 525
Tyr Cys Ser Met Ser Ser Tyr Ser Ser Ser Pro Pro Arg Gln Ala Ala		
	530	535 540
Arg Ser Pro Ser Ser Leu Pro Ser Ser Pro Ala Ser Ser Ser Ser Val		
	545	550 555 560
Pro Phe Ser Thr Asp Cys Glu Asp Ser Asp Met Leu His Thr Pro Gly		
	565	570 575
Ala Ala Ser Asp Arg Ser Glu His Asp Leu Thr Pro Met Asp Gly Glu		
	580	585 590
Thr Phe Ser Gln His Leu Gln Ala Val Lys Ile Leu Ala Val Arg Asp		
	595	600 605
Leu Ile Trp Val Pro Arg Arg Gly Gly Asp Val Ile Val Ile Gly Leu		
	610	615 620
Glu Lys Asp Ser Gly Ala Gln Arg Gly Arg Val Ile Ala Val Leu Lys		
	625	630 635 640
Ala Arg Glu Leu Thr Pro His Gly Val Leu Val Asp Ala Ala Val Val		
	645	650 655
Ala Lys Asp Thr Val Val Cys Thr Phe Glu Asn Glu Asn Thr Glu Trp		
	660	665 670
Cys Leu Ala Val Trp Arg Gly Trp Gly Ala Arg Glu Phe Asp Ile Phe		

675

680

685

Tyr Gln Ser Tyr Glu Glu Leu Gly Arg Leu Glu Ala Cys Thr Arg Lys
 690 695 700

Arg Arg
 705

<210> 1622

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1622

Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr
 1 5 10 15

Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp

1010

09033245 041201

	20		25		30
Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro	35		40		45
Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly	50		55		60
Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile	65		70		75
Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe		85		90	95
Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro		100		105	110
Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala		115		120	125
Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys		130		135	140
Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr		145		150	155
Ala Ile Leu Lys Leu Ala Phe His Arg Ile Xaa Arg Lys His Xaa His		165		170	175
Xaa Ser Phe Ala Xaa Cys Thr Phe Xaa Val Cys Xaa Xaa Gly Asp Phe		180		185	190
Xaa Phe Asn Leu		195			
<210> 1623					
<211> 69					
<212> PRT					
<213> Homo sapiens					
<400> 1623					
Met Asp Phe Asn Leu Gly Leu Pro Gly Ala Gly Pro Pro Arg Leu Leu	1		5		10
Arg Leu Gly Leu Cys Val Leu Ala Leu Ala Cys Phe Arg Cys Leu Thr		20		25	30
Gly Leu Phe Leu Phe Met Ala Trp Leu His Ser Asp Leu Gly Trp Gly		35		40	45
His Ile Gln Pro Thr Ala His Trp Leu Ser Val Trp Pro Ala Pro Arg		50		55	60
Phe Gln Pro Gln Trp		65			

<210> 1624
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 1624

Phe Ser Gly Val Cys Phe Ala Gly Ile Ala Gly Ser Met Ala Thr Leu
 1 5 10 15
 Leu His Asp Ala Val Met Asn Pro Ala Glu Val Val Lys Gln Arg Leu
 20 25 30
 Gln Met Tyr Asn Ser Gln His Arg Ser Ala Ile Ser Cys Ile Arg Thr
 35 40 45
 Val Trp Arg Thr Glu Gly Leu Gly Ala Phe Tyr Arg Ser Tyr Thr Thr
 50 55 60
 Gln Leu Thr Met Asn Ile Pro Phe Gln Ser Ile His Phe Ile Thr Tyr
 65 70 75 80
 Glu Phe Leu Gln Glu Gln Val Asn Pro His Arg Thr Tyr Asn Pro Gln
 85 90 95
 Ser His Ile Ile Ser Gly Gly Leu Ala Gly Ala Leu Ala Ala Ala
 100 105 110
 Thr Thr Pro Leu Asp Val Cys Lys Thr Leu Leu Asn Thr Gln Glu Asn
 115 120 125
 Val Ala Leu Ser Leu Ala Asn Ile Ser Gly Arg Leu Ser Gly Met Ala
 130 135 140
 Asn Ala Phe Arg Thr Val Tyr Gln Leu Asn Gly Leu Ala Gly Tyr Phe
 145 150 155 160
 Lys Gly Ile Gln Ala Arg Val Ile Tyr Gln Met Pro Ser Thr Ala Ile
 165 170 175
 Ser Trp Ser Val Tyr Glu Phe Phe Lys Tyr Phe Leu Thr Lys Arg Gln
 180 185 190
 Leu Glu Asn Arg Ala Pro Tyr
 195

<210> 1625
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1625

Met Asp Phe Asn Leu Gly Leu Pro Gly Ala Gly Pro Pro Arg Leu Leu
 1 5 10 15
 Arg Leu Gly Leu Cys Val Leu Ala Leu Ala Cys Phe Arg Cys Leu Thr
 20 25 30
 Gly Leu Phe Leu Phe Met Ala Trp Leu His Ser Asp Leu Gly Trp Gly

1012

"0424" 542E860

35

40

45

His Ile Gln Pro Thr Ala His Trp Leu Ser Val Trp Pro Ala Pro Arg
 50 55 60

Phe Gln Pro Gln Trp
 65

<210> 1626

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1626

Met Ala Arg Val Leu Gln Leu Glu Pro Gln Thr Ser Ala Cys Leu Leu
 1 5 10 15

Ser Leu Leu Cys Pro Ala Leu Gln Glu Pro Gly Pro Ala Ser Gly Thr
 20 25 30

Glu Ser Ala His Phe Leu Arg Ala His Ser Arg Cys Gly Pro Gly Leu
 35 40 45

Pro Pro Pro His Val Ser Ser Pro Gln Pro Thr Pro Pro Gly Pro Glu
 50 55 60

Ala Lys Val Arg Gly Cys Met Gly Ala Arg Trp Trp Leu Gly Arg Ala
 65 70 75 80

Pro Gly Val Xaa Gly Val Phe Arg Asp Thr Thr
 85 90

<210> 1627

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1627

Ala His Cys His Ile Ser Arg Ser His Cys Pro Thr Leu Arg Xaa Lys
 1 5 10 15

Asp Thr Cys Gly Gly Trp Glu Pro Thr Ser Ala Leu Gly Ser Ser Thr
 20 25 30
 Leu Ser His Val Pro His Xaa Leu Leu Glu Arg Arg Asp Leu Trp Arg
 35 40 45
 Arg Glu Ala Glu Ala Arg Lys Gln Ser Gln Pro Asp Pro Ala Met Pro
 50 55 60
 Pro Gly His Thr Arg Met Pro Glu Asn Gln Arg Leu Glu Thr Leu Thr
 65 70 75 80
 Lys Leu Leu Gln Ser Gln Ser Gln Leu Leu Arg Glu Leu Val Leu Leu
 85 90 95
 Pro Ala Gly Ala Asp Ser Leu Arg Ala Gln Ser His Arg Ala Glu Leu
 100 105 110
 Asp Arg Lys Leu Val Gln Val Glu Glu Ala Ile Lys Ile Phe Ser Arg
 115 120 125
 Pro Lys Val Phe Val Lys Met Asp Asp
 130 135

<210> 1628
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 1628
 Met Ala Trp Ala Pro Ala Cys Val Gln Ala Gln Gly Leu Ser Cys Leu
 1 5 10 15
 Cys Leu Phe Pro Asp Pro Ser Ser Cys Arg Glu Trp Cys Cys Pro Leu
 20 25 30
 Gly Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu
 35 40 45
 Lys Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Lys Ala
 50 55 60
 Leu His Val Pro Pro Gln Asn Pro Arg Thr Gly Ser Leu Thr Phe Lys
 65 70 75 80
 Lys Asp Glu Asn Glu Thr Lys Tyr Phe Leu Phe Phe Leu Leu Pro
 85 90 95

<210> 1629
 <211> 189
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (81)

[illegible]

<221> SITE

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<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1629
Val Gln Leu Ser Val Pro Ala Gly Met Leu His Ser Leu Cys Val Gln
  1                               5          10          15

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Ser Lys Ala Asp Gly Ala Arg Pro Ser Ile Leu Tyr Leu Thr Cys Pro
35 40 45

Leu His Ser Pro Ile Lys Asn Gly Pro Gln Ile Arg Val Glu Glu Ala
50 55 60

Asp Val Ser Ser Ser Glu Thr Ala Leu Pro Arg Ser Arg Arg Asp Gly
65 70 75 80

Xaa Ala Lys Pro Gly Cys Glu Thr Gly Cys Cys Met Trp Leu Gln Ala
85 90 95

Leu Asn Ile Val Thr Trp Arg Leu Pro Gln His Ile Val Arg Ser Lys
100 105 110

Pro Gln Glu Pro Glu Gln Gln Asn Ser Cys His Pro Gln Lys Pro Ala
115 120 125

Pro Gly Thr Ala Val Gln Ile Gly Arg Arg Ser Ser Gln Gln Trp Leu
130 135 140

Leu Arg Thr Pro Leu Thr Gln Gln Arg Ser Pro Asp Ala Cys Arg Ser
145 150 155 160

Pro Glu Xaa Ala Leu Ser Ala Leu Asp Met Ala Gly Asp Thr Gln Val
165 170 175

Trp Pro Ser Gln Ser Leu Phe Ala Lys Leu Lys Val Lys
180 185

<211> 95

<213> Homo sapiens

<400> 1630
Met Ala Trp Ala Pro Ala Cys Val Gln Ala Gln Gly Leu Ser Cys Leu
1 5 10 15

Cys Leu Phe Pro Asp Pro Ser Ser Cys Arg Glu Trp Cys Cys Pro Leu
20 25 30

Gly Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu
35 40 45

[illegible]

Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
1 5 10 15

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
35 40 45

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
85 90 95

Arg Leu Arg Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile
100 105 110

Pro Arg Arg Pro Gly Ala Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val
115 120 125

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser His Leu Ser Asp
130 135 140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Val Ser
145 150 155 160

Val Val Thr His Pro Gly Gly Cys Arg Gly His Glu Val Glu Asp Val
165 170 175

Asp Leu Glu Leu Phe Asn Thr Ser Val Gln Leu Gln Pro Pro Thr Thr
180 185 190

Ala Pro Gly Pro Glu Thr Ala Ala Phe Ile Glu Arg Leu Glu Met Glu
195 200 205

Gln Ala Gln Lys Ala Lys Asn Pro Gln Glu Gln Lys Ser Phe Phe Xaa
210 215 220

Lys Tyr Trp Met Tyr Ile Ile Pro Val Val Leu Phe Leu Met Met Ser
225 230 235 240

Gly Ala Pro Asp Xaa Gly Gly Gln Gly Xaa Gly Xaa Gly Gly Xaa Xaa
245 250 255

Xaa Gly Val Val Ala Gly Glu Gly Pro Ser Leu Ser Ala Phe Pro Ser
260 265 270

Cys Lys Thr Gln Gly Gly Phe Pro Phe Cys Leu Glu Phe Pro Xaa Cys
275 280 285

Ser Ser Ser Pro Ser Pro Lys Lys Gly Phe Cys Leu Xaa Pro Leu
290 295 300

<210> 1632
 <211> 173
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (173)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1632
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 20 25 30
 Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
 35 40 45
 Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
 50 55 60
 Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
 65 70 75 80
 Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
 85 90 95

Arg Leu Xaa Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile
100 105 110

Pro Arg Arg Pro Gly Xaa Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val
115 120 125

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser Xaa Leu Ser Asp
130 135 140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Arg Val
145 150 155 160

Gly Gly Asp Xaa Pro Trp Gly Cys Arg Xaa His Xaa Xaa
165 170

<210> 1633

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1633

Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
85 90 95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg
100 105 110

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys
115 120 125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser
130 135 140

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser
145 150 155

<210> 1634

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1634

Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
 1 5 10 15
 Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
 20 25 30
 Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
 35 40 45
 Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
 50 55 60
 Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
 65 70 75 80
 Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
 85 90 95
 Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg
 100 105 110
 Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys
 115 120 125
 Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser
 130 135 140
 Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser
 145 150 155

<210> 1635

<211> 115

<212> PRT

<213> Homo sapiens

<400> 1635

Met Arg Ser Arg Lys Ile Pro Gln Gln Ser Arg Phe Phe Thr Pro Leu
 1 5 10 15
 Phe Phe Leu Asn Leu Pro Ile Leu Val Val Pro Leu Pro Ser Thr Asp
 20 25 30
 Thr Ser Cys Ser Asp Phe Gln Tyr Gln Val Phe Lys Thr Ser Tyr Pro
 35 40 45
 Pro Ser Ser Val Pro Pro Ser Leu Gln Ser His Lys His Trp Cys Ser
 50 55 60
 Gln Ile Lys Ile Ser Pro Lys Gln Cys Gln Arg Asp Pro Leu Ser Ser
 65 70 75 80
 Phe Gln Ala Arg Asp Met Phe Ser Phe Gln Val Leu Glu Lys Thr Gly
 85 90 95
 Ser Met Phe Thr Trp Asn Phe Ser Arg Gly Gly Ala Ile Ser Phe Cys
 100 105 110

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<400> 1636
Met Arg Ser Arg Lys Ile Pro Gln Gln Ser Arg Phe Phe Thr Pro Leu
  1           5           10           15
Phe Phe Leu Asn Leu Pro Ile Leu Val Val Pro Leu Pro Ser Thr Asp
      20           25           30
Thr Ser Cys Ser Asp Phe Gln Tyr Gln Val Phe Lys Thr Ser Tyr Pro
      35           40           45
Pro Ser Ser Val Pro Pro Ser Leu Gln Ser His Lys His Trp Cys Ser
      50           55           60
Gln Ile Lys Ile Ser Pro Lys Gln Cys Gln Arg Asp Pro Leu Ser Ser
      65           70           75
Phe Gln Ala Arg Asp Met Phe Ser Phe Gln Val Leu Glu Lys Thr Gly
      85           90           95
Ser Met Phe Thr Trp Asn Phe Ser Arg Gly Gly Ala Ile Ser Phe Cys
      100          105          110

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<210> 1637
<211> 80
<212> PRT
<213> Homo sapiens
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1021

<210> 1638
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1638
 Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys
 1 5 10 15
 Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val
 20 25 30
 Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser
 35 40 45
 Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe
 50 55 60
 Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser
 65 70 75 80

<210> 1639
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1639
 Met Arg Thr Asn Gln Ser Leu Cys Ser Phe Leu Leu Trp Ser Val Pro
 1 5 10 15
 Phe His Gln Ala Ala Cys Pro Gln Ala Lys Asp His Pro Leu Glu Pro
 20 25 30
 Ser Met His Pro Glu Gly Thr Gln Leu Gln Ser Cys Ser Thr Met Leu
 35 40 45
 Gly Pro Arg Gln Leu Ser Ser Glu Lys Gln Pro Leu Leu Pro Pro Arg
 50 55 60
 Ser His Leu Lys Ser Ser Pro Met Leu Arg Ala Cys Lys Gly Leu Thr
 65 70 75 80
 Ser

<210> 1640
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1640

Met Arg Thr Asn Gln Ser Leu Cys Ser Phe Leu Leu Trp Ser Val Pro
 1 5 10 15
 Phe His Gln Ala Ala Cys Pro Gln Ala Lys Asp His Pro Leu Glu Pro
 20 25 30
 Ser Met His Pro Glu Gly Thr Gln Leu Gln Ser Cys Ser Thr Met Leu
 35 40 45
 Gly Pro Arg Gln Leu Ser Ser Glu Lys Gln Pro Leu Leu Pro Pro Arg
 50 55 60
 Ser His Leu Lys Ser Ser Pro Met Leu Arg Ala Cys Lys Gly Leu Thr
 65 70 75 80

Ser

<210> 1641

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1641

Met Val Phe Leu Ser His Leu Phe Gly Thr Lys Arg Leu Phe Leu Leu
 1 5 10 15
 Leu Ala Leu Ile Trp Ala Ser Trp His Phe Ser Tyr Met Pro Ala Asp
 20 25 30
 Ala Trp Val Asp Pro Gly Ile Pro Asp Arg Tyr Leu Gln Ala Tyr Leu
 35 40 45
 Ser Ile Val Xaa Pro
 50

<210> 1642

<211> 61

<212> PRT

<213> Homo sapiens

<400> 1642

Met His Val Val His Trp Ser Arg Leu Phe Leu Leu Lys Pro Pro Tyr
 1 5 10 15
 Ser Val His Ala Thr Phe Ile Pro Thr Gly Phe Leu Ala Arg Phe Arg
 20 25 30
 Thr Pro Gly Ile Leu Asp Ser Cys Phe Phe His Ser Trp Pro Leu Leu

45

1024

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<211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1645
 Met Gly Leu Leu Ala Phe Leu Lys Thr Gln Phe Val Leu His Leu Leu
 1 5 10 15
 Val Gly Phe Val Phe Val Val Ser Gly Leu Val Ile Asn Phe Val Gln
 20 25 30
 Leu Cys Thr Leu Ala Leu Trp Pro Val Ser Lys Gln Leu Tyr Arg Arg
 35 40 45
 Leu Asn Cys Arg Leu Ala Tyr Ser Leu Trp Ser Gln Leu Val Met Leu
 50 55 60
 Leu Glu Trp Trp Ser Cys Thr Glu Cys Thr Leu Phe Thr Asp Gln Ala
 65 70 75 80
 Thr Val Glu Arg Phe Gly Lys Glu His Ala Ile Ile Ile Leu Asn His
 85 90 95
 Asn Phe Glu Ile Asp Phe Leu Cys Gly Trp Thr Met Cys Glu Arg Phe
 100 105 110
 Gly Met Leu Xaa Ser Ser Lys Gly Pro Arg
 115 120

<210> 1646
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1646
 Gly Asp Phe Leu Trp Lys Thr Ser Arg Val Asp Glu Lys Glu Ala Ala
 1 5 10 15
 Gln Trp Leu His Lys Leu Tyr Gln Glu Lys Asp Ala Leu Gln Glu Ile
 20 25 30
 Tyr Asn Gln Lys Gly Met Phe Pro Gly Glu Gln Phe Lys Pro Ala Arg
 35 40 45
 Arg Pro Trp Thr Leu Leu Asn Phe Leu Ser Trp Ala Thr Ile Leu Leu
 50 55 60
 Ser Pro Leu Phe Ser Phe Val Leu Gly Val Phe Ala Ser Gly Ser Pro
 65 70 75 80
 Leu Leu Ile Leu Thr Phe Leu Gly Phe Val Gly Ala Ala Ser Phe Gly
 85 90 95

Val Arg Arg Leu Ile Gly Val Thr Glu Ile Glu Lys Gly Ser Ser Tyr
 100 105 110

Gly Asn Gln Glu Phe Lys Lys Lys Glu
 115 120

<210> 1647

<211> 376

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1647

Met Gly Leu Leu Ala Phe Leu Lys Thr Gln Phe Val Leu His Leu Leu
 1 5 10 15

Val Gly Phe Val Phe Val Val Ser Gly Leu Val Ile Asn Xaa Val Gln
 20 25 30

Leu Cys Thr Leu Ala Leu Trp Pro Val Ser Lys Gln Leu Tyr Arg Arg
 35 40 45

Leu Asn Cys Arg Leu Ala Tyr Ser Leu Trp Ser Gln Leu Val Met Leu
 50 55 60

Leu Glu Trp Trp Ser Cys Thr Glu Cys Thr Leu Phe Thr Asp Gln Ala
 65 70 75 80

Thr Val Glu Arg Phe Gly Lys Glu His Ala Val Ile Ile Leu Asn His
 85 90 95

Asn Phe Glu Ile Asp Phe Leu Cys Gly Trp Thr Met Cys Glu Arg Phe
 100 105 110

Gly Val Leu Gly Ser Ser Lys Val Leu Ala Lys Lys Glu Leu Leu Tyr
 115 120 125

Val Pro Leu Ile Gly Trp Thr Trp Tyr Phe Leu Glu Ile Val Phe Cys
 130 135 140

Lys Arg Lys Trp Glu Glu Asp Arg Asp Thr Val Val Glu Gly Leu Arg
 145 150 155 160

Arg Leu Ser Asp Tyr Pro Glu Tyr Met Trp Phe Leu Leu Tyr Cys Glu
 165 170 175

Gly Thr Arg Phe Thr Glu Thr Lys His Arg Val Ser Met Glu Val Ala
 180 185 190

Ala Ala Lys Gly Leu Pro Val Leu Lys Tyr His Leu Leu Pro Arg Thr
 195 200 205

Lys Gly Phe Thr Thr Ala Val Lys Cys Leu Arg Gly Thr Val Ala Ala
 210 215 220

Val Tyr Asp Val Thr Leu Asn Phe Arg Gly Asn Lys Asn Pro Ser Leu
225 230 235 240

Leu Gly Ile Leu Tyr Gly Lys Lys Tyr Glu Ala Asp Met Cys Val Arg
245 250 255

Arg Phe Pro Leu Glu Asp Ile Pro Leu Asp Glu Lys Glu Ala Ala Gln
260 265 270

Trp Leu His Lys Leu Tyr Gln Glu Lys Asp Ala Leu Gln Glu Ile Tyr
275 280 285

Asn Gln Lys Gly Met Phe Pro Gly Glu Gln Phe Lys Pro Ala Arg Arg
290 295 300

Pro Trp Thr Leu Leu Asn Phe Leu Ser Trp Ala Thr Ile Leu Leu Ser
305 310 315 320

Pro Leu Phe Ser Phe Val Leu Gly Val Phe Ala Ser Gly Ser Pro Leu
325 330 335

Leu Ile Leu Thr Phe Leu Gly Phe Val Gly Ala Ala Ser Phe Gly Val
340 345 350

Arg Arg Leu Ile Gly Val Thr Glu Ile Glu Lys Gly Ser Ser Tyr Gly
355 360 365

Asn Gln Glu Phe Lys Lys Lys Glu
370 375

<210> 1648
<211> 164
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1648
Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro
1 5 10 15

Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val
20 25 30

130	135	140
Val Thr Ala Tyr Thr Ala Gly Pro Phe Thr Ser Ala Phe Phe Asn Pro		
145	150	155 160
Ala Leu Ala Ala Ser Val Thr Phe Ala Cys Ser Asp Thr Pro Tyr Trp		
	165	170 175
Ser Thr Cys Arg Cys Thr Gly Trp Ala Leu		
	180	185

<210> 1650
 <211> 206
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (200)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1650

Met Val Arg Leu Ala Ala Glu Leu Leu Leu Leu Gly Leu Leu Leu		
1	5	10 15
Leu Thr Leu His Ile Thr Val Leu Arg Gly Ser Gly Ala Ala Asp Gly		
	20	25 30
Pro Asp Ala Ala Ala Gly Asn Ala Ser Gln Ala Gln Leu Gln Asn Asn		
	35	40 45
Leu Asn Val Gly Ser Asp Thr Thr Ser Glu Thr Ser Phe Ser Leu Ser		
	50	55 60
Lys Glu Ala Pro Arg Glu His Leu Asp His Gln Ala Ala His Gln Pro		
	65	70 75 80
Phe Pro Arg Pro Arg Phe Arg Gln Glu Thr Gly His Pro Ser Leu Gln		
	85	90 95
Arg Asp Phe Pro Arg Ser Phe Leu Leu Asp Leu Pro Asn Phe Pro Asp		
	100	105 110
Leu Ser Lys Ala Asp Ile Asn Gly Gln Asn Pro Asn Ile Gln Val Thr		
	115	120 125
Ile Glu Val Val Asp Gly Pro Asp Ser Glu Ala Asp Lys Asp Gln His		
	130	135 140
Pro Glu Asn Lys Pro Ser Trp Ser Val Pro Ser Pro Asp Trp Arg Ala		
	145	150 155 160
Trp Trp Gln Arg Ser Leu Ser Leu Ala Arg Ala Asn Ser Gly Asp Gln		
	165	170 175
Asp Tyr Gln Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu Asn Pro		
	180	185 190

Pro Arg Gly Trp Asp His Thr Xaa Pro Gly His Arg Asp Phe
 195 200 205

<210> 1651
 <211> 107
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1651
 His Phe Ser Lys Gly Lys Gln Gln Asn Lys Trp Glu Lys Asp Asn Gly
 1 5 10 15
 Pro His Phe Thr Tyr Phe Asn Thr Ile Leu Thr Ile Phe Ser Ser Thr
 20 25 30
 Asn Ile Ser Pro Ile Asn Lys Tyr Lys Arg Gly Gly Gly Ser Ile Trp
 35 40 45
 Gly Ile Leu Xaa Phe Tyr Val Leu Arg Lys Gln Lys Lys Leu His Tyr
 50 55 60
 Phe Cys Lys Val Phe Ile Glu Ser Arg Ile Ile Val His Gln Ala Ile
 65 70 75 80
 Val Asn Met Thr Trp Ser Tyr Gly Val Glu Leu Arg Lys Asn Lys Val
 85 90 95
 Gly Ser Tyr Ser Ile Phe Tyr Phe Ala Lys Phe
 100 105

<210> 1652
 <211> 464
 <212> PRT
 <213> Homo sapiens

<400> 1652
 Met Val Arg Leu Ala Ala Glu Leu Leu Leu Leu Gly Leu Leu Leu
 1 5 10 15
 Leu Thr Leu His Ile Thr Val Leu Arg Gly Ser Gly Ala Ala Asp Gly
 20 25 30
 Pro Asp Ala Ala Ala Gly Asn Ala Ser Gln Ala Gln Leu Gln Asn Asn
 35 40 45
 Leu Asn Val Gly Ser Asp Thr Thr Ser Glu Thr Ser Phe Ser Leu Ser
 50 55 60
 Lys Glu Ala Pro Arg Glu His Leu Asp His Gln Ala Ala His Gln Pro
 65 70 75 80

Phe	Pro	Arg	Pro	Arg	Phe	Arg	Gln	Glu	Thr	Gly	His	Pro	Ser	Leu	Gln	85	90	95
Arg	Asp	Phe	Pro	Arg	Ser	Phe	Leu	Leu	Asp	Leu	Pro	Asn	Phe	Pro	Asp	100	105	110
Leu	Ser	Lys	Ala	Asp	Ile	Asn	Gly	Gln	Asn	Pro	Asn	Ile	Gln	Val	Thr	115	120	125
Ile	Glu	Val	Val	Asp	Gly	Pro	Asp	Ser	Glu	Ala	Asp	Lys	Asp	Gln	His	130	135	140
Pro	Glu	Asn	Lys	Pro	Ser	Trp	Ser	Val	Pro	Ser	Pro	Asp	Trp	Arg	Ala	145	150	155
Trp	Trp	Gln	Arg	Ser	Leu	Ser	Leu	Ala	Arg	Ala	Asn	Ser	Gly	Asp	Gln	165	170	175
Asp	Tyr	Lys	Tyr	Asp	Ser	Thr	Ser	Asp	Asp	Ser	Asn	Phe	Leu	Asn	Pro	180	185	190
Pro	Arg	Gly	Trp	Asp	His	Thr	Ala	Pro	Gly	His	Arg	Thr	Phe	Glu	Thr	195	200	205
Lys	Asp	Gln	Pro	Glu	Tyr	Asp	Ser	Thr	Asp	Gly	Glu	Gly	Asp	Trp	Ser	210	215	220
Leu	Trp	Ser	Val	Cys	Ser	Val	Thr	Cys	Gly	Asn	Gly	Asn	Gln	Lys	Arg	225	230	235
Thr	Arg	Ser	Cys	Gly	Tyr	Ala	Cys	Thr	Ala	Thr	Glu	Ser	Arg	Thr	Cys	245	250	255
Asp	Arg	Pro	Asn	Cys	Pro	Gly	Ile	Glu	Asp	Thr	Phe	Arg	Thr	Ala	Ala	260	265	270
Thr	Glu	Val	Ser	Leu	Leu	Ala	Gly	Ser	Glu	Glu	Phe	Asn	Ala	Thr	Lys	275	280	285
Leu	Phe	Glu	Val	Asp	Thr	Asp	Ser	Cys	Glu	Arg	Trp	Met	Ser	Cys	Lys	290	295	300
Ser	Glu	Phe	Leu	Lys	Lys	Tyr	Met	His	Lys	Val	Met	Asn	Asp	Leu	Pro	305	310	315
Ser	Cys	Pro	Cys	Ser	Tyr	Pro	Thr	Glu	Val	Ala	Tyr	Ser	Thr	Ala	Asp	325	330	335
Ile	Phe	Asp	Arg	Ile	Lys	Arg	Lys	Asp	Phe	Arg	Trp	Lys	Asp	Ala	Ser	340	345	350
Gly	Pro	Lys	Glu	Lys	Leu	Glu	Ile	Tyr	Lys	Pro	Thr	Ala	Arg	Tyr	Cys	355	360	365
Ile	Arg	Ser	Met	Leu	Ser	Leu	Glu	Ser	Thr	Thr	Leu	Ala	Ala	Gln	His	370	375	380
Cys	Cys	Tyr	Gly	Asp	Asn	Met	Gln	Leu	Ile	Thr	Arg	Gly	Lys	Gly	Ala	385	390	395

Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu His Tyr
405 410 415

Lys Val Asp Val Leu Pro Trp Ile Ile Cys Lys Gly Asp Trp Ser Arg
420 425 430

Tyr Asn Glu Ala Arg Pro Pro Asn Asn Gly Gln Lys Cys Thr Glu Ser
435 440 445

Pro Ser Asp Glu Asp Tyr Ile Lys Gln Phe Gln Glu Ala Arg Glu Tyr
450 455 460

<210> 1653
<211> 158
<212> PRT
<213> Homo sapiens

<400> 1653
Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu
1 5 10 15

Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr
20 25 30

Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met
35 40 45

Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile
50 55 60

Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln
65 70 75 80

Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala
85 90 95

Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly
100 105 110

Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu
115 120 125

Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile
130 135 140

Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro
145 150 155

<210> 1654
<211> 106
<212> PRT
<213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1654

Pro	Thr	Phe	Ser	Asp	Gln	Tyr	Leu	Ala	Pro	His	Pro	Tyr	Ser	Pro	Gln
1				5					10					15	
Pro	Pro	Pro	Tyr	His	Glu	Leu	Pro	His	Xaa	His	Gly	Gln	Ser	Gln	Arg
			20					25					30		
Val	Leu	Cys	Gly	Cys	Tyr	Val	Ala	His	Cys	Gly	Ala	Arg	Leu	Gly	Arg
		35					40					45			
Ala	Leu	Leu	Val	Cys	Asp	Trp	Val	Ser	Trp	Pro	Ser	Cys	Ala	Cys	Ser
	50					55					60				
Tyr	Ser	Ala	Trp	Ala	Gln	Pro	Thr	Ser	Cys	Cys	His	Thr	Gly	Asp	Cys
65					70					75					80
Gly	His	Cys	Asp	Ser	His	Gln	Gln	Cys	Leu	Val	Pro	Pro	Pro	Ser	Leu
				85					90					95	
Arg	Gly	Arg	Gln	Gly	Thr	Phe	Asp	Tyr	Phe						
			100					105							

<210> 1655

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1655

Met	Thr	Thr	Met	Ala	Pro	Val	Gly	Leu	Gln	Thr	Arg	Ile	Pro	Trp	Leu
1				5					10					15	
Leu	Cys	Leu	Gly	Pro	Pro	Pro	Gly	Pro	Cys	Cys	Pro	Leu	Ser	Pro	Thr
			20					25					30		
Ser	Thr	Leu	Pro	His	Thr	Pro	Thr	Ala	Arg	Ser	Leu	His	Pro	Thr	Met
		35					40					45			
Ser	Phe	His	Leu	Thr	Pro	Met	Val	Gly	Ala	Val	Pro	Ala	Ala	Ser	Ile
	50					55					60				
Val	Arg	Ala	Ala	Gly	Ala	Val	Gly	Arg	His	Gly	Val	Met	Gly	Gly	Gln
65					70					75					80
Gly	Ala	Arg	Gly	Gly	Pro	Arg	Ser	Gly	Pro	Pro	Ser	Pro	Ser	Pro	Ala
				85					90					95	
Val	Ala	Val	Ser	Leu	Ser	Pro	Pro	Ala	Glu	Gly	Ala	Ala	Phe	Gly	Gly
			100					105					110		
Val	Gly	Lys	Gln	Val	Gly	Leu	Ala	Met	Gly	Ala	Leu	Leu	His	Pro	Glu
		115				120						125			
Ala	Gln	Leu	Gly	Val	Pro	Leu	Ile	Ser	Glu	Pro	Thr	Gln	Gly	Ser	Ile

1033

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130

135

140

Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro
145 150 155

<210> 1656

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1656

Met His Arg Pro Glu Ala Met Leu Leu Leu Leu Thr Leu Ala Leu Leu
1 5 10 15

Gly Gly Pro Thr Trp Ala Gly Lys Met Tyr Gly Pro Gly Gly Gly Lys
20 25 30

Tyr Phe Ser Thr Thr Glu Asp Tyr Asp His Glu Ile Thr Gly Leu Arg
35 40 45

Val Ser Val Gly Leu Leu Leu Val Lys Arg Phe Leu Glu Gly Val Ile
50 55 60

Tyr Glu
65

<210> 1657

<211> 178

<212> PRT

<213> Homo sapiens

<400> 1657

Met His Arg Pro Glu Ala Met Leu Leu Leu Leu Thr Leu Ala Leu Leu
1 5 10 15

Gly Gly Pro Thr Trp Ala Gly Lys Met Tyr Gly Pro Gly Gly Gly Lys
20 25 30

Tyr Phe Ser Thr Thr Glu Asp Tyr Asp His Glu Ile Thr Gly Leu Arg
35 40 45

Val Ser Val Gly Leu Leu Leu Val Lys Ser Val Gln Val Lys Leu Gly
50 55 60

Asp Ser Trp Asp Val Lys Leu Gly Ala Leu Gly Gly Asn Thr Gln Glu
65 70 75 80

Val Thr Leu Gln Pro Gly Glu Tyr Ile Thr Lys Val Phe Val Ala Phe
85 90 95

Gln Ala Phe Leu Arg Gly Met Val Met Tyr Thr Ser Lys Asp Arg Tyr
100 105 110

Phe Tyr Phe Gly Lys Leu Asp Gly Gln Ile Ser Ser Ala Tyr Pro Ser
115 120 125

1034

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Gln Glu Gly Gln Val Leu Val Gly Ile Tyr Gly Gln Tyr Gln Leu Leu
 130 135 140

Gly Ile Lys Ser Ile Gly Phe Glu Trp Asn Tyr Pro Leu Glu Glu Pro
 145 150 155 160

Thr Thr Glu Pro Pro Val Asn Leu Thr Tyr Ser Ala Asn Ser Pro Val
 165 170 175

Gly Arg

<210> 1658
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1658
 Met Thr Phe Cys Leu Phe Val Leu Phe Cys Leu Xaa Trp Ser Leu Ala
 1 5 10 15

Leu Leu Pro Arg Val Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn
 20 25 30

Leu His Leu Pro Gly Ser Gly Gly Phe Ser Cys Leu Ser Leu Leu Ser
 35 40 45

Ser Trp Asp Xaa Arg His Ala Pro Pro Cys Pro Asp Asn Phe Cys Xaa
 50 55 60

Phe Ser Xaa Xaa Gly Val Ser Leu Cys Trp Gln Ala Gly Leu Glu His
 65 70 75 80

Leu Thr Arg Gly Pro Pro Ala Ser Ala Ser Gln Ser Thr Gly Ile Thr
85 90 95
Gly Val Ser His Pro Ala Trp Pro Arg Met Thr Phe Lys Arg Ser Asn
100 105 110

<210> 1659
<211> 122
<212> PRT
<213> Homo sapiens

<400> 1659
Met Thr Thr Ala Ser Ser Leu Ile Ser Pro Phe Phe Pro Leu Pro Pro
1 5 10 15

Pro Ala His Phe Ser Gln Cys Arg Met Thr Phe Cys Leu Phe Val Leu
20 25 30

Phe Cys Leu Arg Trp Ser Leu Ala Leu Leu Pro Arg Val Glu Cys Ser
35 40 45

Gly Ala Ile Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Gly
50 55 60

Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Ala Pro
65 70 75 80

Pro Cys Pro Asp Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Leu
85 90 95

Cys Trp Pro Gly Trp Ser Arg Thr Pro Asp Leu Val Val His Pro Pro
100 105 110

Arg Pro Pro Lys Ala Leu Gly Leu Gln Ala
115 120

<210> 1660
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1660
Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu
1 5 10 15

Leu Leu Leu Phe Thr Asp Thr Xaa Asn Ser His Cys Leu Pro Pro Tyr
20 25 30

Glu Asp Ala Met Leu Met Phe Asp Lys Thr Thr Asn Arg His Arg Gly
 180 185 190
 Phe Gly Phe Val Thr Phe Glu Asn Glu Asp Val Val Glu Lys Val Cys
 195 200 205
 Glu Ile His Phe His Glu Ile Asn Asn Lys Met Val Glu Cys Lys Lys
 210 215 220
 Ala Gln Pro Lys Glu Val Met Phe Pro Pro Gly Thr Arg Gly Arg Ala
 225 230 235 240
 Arg Gly Leu Pro Tyr Thr Met Asp Ala Phe Met Leu Gly Met Gly Met
 245 250 255
 Leu Gly Glu Ser Gly Gln Asp Arg Arg Ser Pro Trp Thr Gly Arg Ala
 260 265 270
 Met Glu Ala Ser Thr Pro Asn Trp Val Thr Tyr Gln Trp Gly Lys Leu
 275 280 285
 Leu His Leu Ser Lys Pro Gln Phe Pro Cys Leu
 290 295

<210> 1662
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1662
 Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Phe Thr Asp Thr Ser Asn Ser His Cys Leu Pro Pro Tyr
 20 25 30
 Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys
 35 40 45
 Ile Ser Ala Ala Tyr Val Leu Ala Thr Pro Pro Glu Pro Ser Phe Ile
 50 55 60
 Leu Val Gly Phe Ser Glu Ala Gly Phe Ala Gln Val Ala Cys Phe Leu
 65 70 75 80
 Lys Tyr Leu Phe Cys Arg Pro Phe Thr Arg His Gly Tyr Phe Tyr Ser
 85 90 95
 Gly

<210> 1663
 <211> 86
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1663
 Met Leu Ala Ala Ala Pro Leu His Glu Gln Lys Gln Met Ile Gly Thr
 1 5 10 15
 Cys Tyr Leu Val Leu Lys Arg Trp Ser Asp Trp Met Val Leu Ser Phe
 20 25 30
 Leu Pro Leu Leu Leu Ser Cys Asp Phe Glu Gly Ser Val Ser Thr Pro
 35 40 45
 Leu Ser Met Met Ser Thr Pro Ser Trp Leu Ala Arg Ser Arg Ala Cys
 50 55 60
 Cys Trp Arg Leu Thr Thr Xaa Ser Cys Cys Ser Cys Trp Ser Leu Gln
 65 70 75 80
 Asn Pro Ser Met Pro Arg
 85

<210> 1664
 <211> 86
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1664
 Met Leu Ala Ala Ala Pro Leu His Glu Gln Lys Gln Met Ile Gly Thr
 1 5 10 15
 Cys Tyr Leu Val Leu Lys Arg Trp Ser Asp Trp Met Val Leu Ser Phe
 20 25 30
 Leu Pro Leu Leu Leu Ser Cys Asp Phe Glu Gly Ser Val Ser Thr Pro
 35 40 45
 Leu Ser Met Met Ser Thr Pro Ser Trp Leu Ala Arg Ser Arg Ala Cys
 50 55 60
 Cys Trp Arg Leu Thr Thr Xaa Ser Cys Cys Ser Cys Trp Ser Leu Gln
 65 70 75 80
 Asn Pro Ser Met Pro Arg
 85

<210> 1665
 <211> 49
 <212> PRT

<213> Homo sapiens

<400> 1665

Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser
1 5 10 15

Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe
20 25 30

Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly
35 40 45

Leu

<210> 1666

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1666

Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser
1 5 10 15

Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe
20 25 30

Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly
35 40 45

Leu

<210> 1667

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1667

Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
1 5 10 15

Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
20 25 30

Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
35 40 45

Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
50 55 60

His Asn Phe Gln Xaa Arg Pro Pro Ser Gly Arg Xaa Leu Ser Pro Gln
65 70 75 80

Ser Ala Tyr Pro Arg Leu Pro Gly Pro Xaa Phe Pro His Leu His Asn
85 90 95

Gly Gly Asp His Pro Cys Pro Ala Gly Cys Arg Xaa Gly Cys Glu Ser
100 105 110

Ser Ala Trp Met Gln Pro Gly Gly Ser His Arg Ala Ala Phe Thr Gly
115 120 125

Leu Ala Leu Pro Trp Ala Gly Gly Arg Pro His Pro Lys Arg
130 135 140

<210> 1668

<211> 110

<212> PRT

<213> Homo sapiens

<400> 1668

Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
1 5 10 15

Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
20 25 30

Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
35 40 45

Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
50 55 60

His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Arg Leu Ser Pro Gln
65 70 75 80

Ser Ala Tyr Pro Arg Leu Pro Gly Pro Gln Phe Pro His Leu His Asn
85 90 95

Gly Gly Asp His Pro Cys Pro Ala Gly Cys Gln Glu Arg Leu
100 105 110

<210> 1669
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1669
 Met Ala Gly Pro Gly Trp Thr Leu Leu Leu Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu
 20 25 30
 Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln
 35 40 45
 Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr
 50 55 60
 Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly
 65 70 75 80
 Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg
 85 90 95
 Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln
 100 105 110
 Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln
 115 120 125
 Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe
 130 135 140
 Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu
 145 150 155

<210> 1670
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1670
 Met Arg Trp Pro Cys Pro Thr Ser Lys Pro Ala Pro Pro Pro Val Leu
 1 5 10 15
 Trp Ser His Leu Cys Gln His Arg Trp Gly Leu Thr Pro Ala Ser Thr
 20 25 30
 Leu Leu Cys Trp Leu Leu Leu Phe Asn Leu Gly Thr Cys Leu Ser Phe
 35 40 45
 Ser His Leu Lys Gln Asn Asn Asn Asn Ser Asn Thr Ser Lys Ile Ser
 50 55 60
 Phe Asp Pro Ala Ser Leu Cys Trp Val Ile Ile Ser Leu Ser Phe Pro
 65 70 75 80

[illegible]

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<400> 1672
Met Arg Trp Pro Cys Pro Thr Ser Lys Pro Ala Pro Pro Pro Val Leu
  1              5              10              15

Trp Ser His Leu Cys Gln His Arg Trp Gly Leu Thr Pro Ala Ser Thr
          20              25              30

Leu Leu Cys Trp Leu Leu Leu Phe Asn Leu Gly Thr Cys Leu Ser Phe
          35              40              45

Ser His Leu Lys Gln Asn Asn Asn Asn Ser Asn Thr Ser Lys Ile Ser
  50              55              60

Phe Asp Pro Ala Ser Leu Cys Trp Val Ile Ile Ser Leu Ser Phe Pro
  65              70              75              80

Pro Phe Pro Ser Lys His Leu Lys Arg Val Val Tyr Thr Gln His Ser
          85              90              95

Pro Phe Pro His Tyr Pro Leu Thr Pro Gln Pro Ala Ala Ile
          100              105              110

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1044

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1673

Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
1 5 10 15

Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe
20 25 30

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala
35 40 45

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val
50 55 60

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro
65 70 75 80

Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Xaa Tyr Leu Ala Asp
85 90 95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu
100 105 110

Ala Xaa Asn Phe Gly Ser Thr Leu Met Xaa Lys Lys Ser Asp Pro Glu
115 120 125

Gly Pro Ala Leu Leu Xaa Pro Glu Ser Glu Leu Phe Ile Arg Ile Gly
130 135 140

Arg Leu Ala Ser Phe Ser Ser Ser Leu Leu Gln His
145 150 155

<210> 1674

<211> 167

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1674

Met	Leu	Gln	Gly	His	Ser	Ser	Val	Phe	Gln	Ala	Leu	Leu	Gly	Thr	Phe
1				5				10						15	
Phe	Thr	Trp	Gly	Met	Thr	Ala	Ala	Gly	Ala	Ala	Leu	Val	Phe	Val	Phe
			20					25					30		
Ser	Ser	Gly	Gln	Arg	Arg	Ile	Leu	Asp	Gly	Ser	Leu	Gly	Phe	Ala	Ala
		35					40					45			
Gly	Val	Met	Leu	Ala	Ala	Ser	Tyr	Trp	Ser	Leu	Leu	Ala	Pro	Ala	Val
	50					55					60				
Glu	Met	Ala	Thr	Ser	Ser	Gly	Gly	Phe	Gly	Ala	Phe	Ala	Phe	Phe	Pro
65				70						75					80
Val	Ala	Val	Gly	Phe	Thr	Leu	Gly	Ala	Ala	Phe	Val	Tyr	Leu	Ala	Asp
				85					90					95	
Leu	Leu	Met	Pro	His	Leu	Gly	Ala	Ala	Glu	Asp	Pro	Gln	Thr	Ala	Leu
			100					105					110		
Ala	Leu	Asn	Phe	Gly	Ser	Thr	Leu	Met	Lys	Lys	Lys	Ser	Asp	Pro	Glu
		115					120					125			
Gly	His	Ala	Leu	Leu	Phe	Pro	Glu	Arg	Ile	His	Xaa	Ile	Asp	Lys	Ser
	130					135					140				
Glu	Asn	Gly	Glu	Ala	Tyr	Gln	Arg	Lys	Lys	Ala	Ala	Ala	Thr	Gly	Leu
145					150					155					160
Pro	Glu	Gly	Pro	Ala	Val	Pro									
				165											

<210> 1675

<211> 204

<212> PRT

<213> Homo sapiens

<400> 1675

Met	Phe	Gln	Phe	Leu	Ser	Gln	Gly	Phe	Tyr	Cys	Gly	Val	Gly	Leu	Phe
1				5				10						15	
Thr	Arg	Phe	Leu	Lys	Leu	Leu	Gly	Ala	Leu	Leu	Leu	Leu	Ala	Leu	Ala
			20					25					30		
Leu	Phe	Leu	Gly	Phe	Leu	Gln	Leu	Gly	Trp	Arg	Phe	Leu	Val	Gly	Leu
		35					40					45			
Gly	Asp	Arg	Leu	Gly	Trp	Arg	Asp	Lys	Ala	Thr	Trp	Leu	Phe	Ser	Trp
	50					55					60				
Leu	Asp	Ser	Pro	Ala	Leu	Gln	Arg	Cys	Leu	Thr	Leu	Leu	Arg	Asp	Ser

65	70	75	80
Arg Pro Trp Gln Arg Leu Val Arg Ile Val Gln Trp Gly Trp Leu Glu	85	90	95
Leu Pro Trp Val Lys Gln Asn Ile Asn Arg Gln Gly Asn Ala Pro Val	100	105	110
Ala Ser Gly Arg Tyr Cys Gln Pro Glu Glu Glu Val Ala Arg Leu Leu	115	120	125
Thr Met Ala Gly Val Pro Glu Asp Glu Leu Asn Pro Phe His Val Leu	130	135	140
Gly Val Glu Ala Thr Ala Ser Asp Val Glu Leu Lys Lys Ala Tyr Arg	145	150	155
Gln Leu Ala Val Met Val His Pro Asp Lys Asn His His Pro Arg Ala	165	170	175
Glu Glu Ala Phe Lys Val Phe Ala Ser Ser Leu Gly Thr Leu Ser Ala	180	185	190
Met Leu Lys Lys Arg Lys Gly Val Trp Arg Leu Lys	195	200	
<210> 1676			
<211> 412			
<212> PRT			
<213> Homo sapiens			
<400> 1676			
Met Gly Val Trp Thr Gly Arg Leu Gly Gly Trp Ala Gln Val Met Phe	1	5	10
Gln Phe Leu Ser Gln Gly Phe Tyr Cys Gly Val Gly Leu Phe Thr Arg	20	25	30
Phe Leu Lys Leu Leu Gly Ala Leu Leu Leu Ala Leu Ala Leu Phe	35	40	45
Leu Gly Phe Leu Gln Leu Gly Trp Arg Phe Leu Val Gly Leu Gly Asp	50	55	60
Arg Leu Gly Trp Arg Asp Lys Ala Thr Trp Leu Phe Ser Trp Leu Asp	65	70	75
Ser Pro Ala Leu Gln Arg Cys Leu Thr Leu Leu Arg Asp Ser Arg Pro	85	90	95
Trp Gln Arg Leu Val Arg Ile Val Gln Trp Gly Trp Leu Glu Leu Pro	100	105	110
Trp Val Lys Gln Asn Ile Asn Arg Gln Gly Asn Ala Pro Val Ala Ser	115	120	125
Gly Arg Tyr Cys Gln Pro Glu Glu Glu Val Ala Arg Leu Leu Thr Met	130	135	140

Ala	Gly	Val	Pro	Glu	Asp	Glu	Leu	Asn	Pro	Phe	His	Val	Leu	Gly	Val
145					150					155					160
Glu	Ala	Thr	Ala	Ser	Asp	Val	Glu	Leu	Lys	Lys	Ala	Tyr	Arg	Gln	Leu
				165					170					175	
Ala	Val	Met	Val	His	Pro	Asp	Lys	Asn	His	His	Pro	Arg	Ala	Glu	Glu
			180					185					190		
Ala	Phe	Lys	Val	Leu	Arg	Ala	Ala	Trp	Asp	Ile	Val	Ser	Asn	Ala	Glu
		195					200					205			
Lys	Arg	Lys	Glu	Tyr	Glu	Met	Lys	Arg	Met	Ala	Glu	Asn	Glu	Leu	Ser
	210					215					220				
Arg	Ser	Val	Asn	Glu	Phe	Leu	Ser	Lys	Leu	Gln	Asp	Asp	Leu	Lys	Glu
225					230					235					240
Ala	Met	Asn	Thr	Met	Met	Cys	Ser	Arg	Cys	Gln	Gly	Lys	His	Arg	Arg
				245					250					255	
Phe	Glu	Met	Asp	Arg	Glu	Pro	Lys	Ser	Ala	Arg	Tyr	Cys	Ala	Glu	Cys
			260					265					270		
Asn	Arg	Leu	His	Pro	Ala	Glu	Glu	Gly	Asp	Phe	Trp	Ala	Glu	Ser	Ser
		275					280					285			
Met	Leu	Gly	Leu	Lys	Ile	Thr	Tyr	Phe	Ala	Leu	Met	Asp	Gly	Lys	Val
	290					295					300				
Tyr	Asp	Ile	Thr	Gln	Trp	Ala	Gly	Cys	Gln	Arg	Val	Gly	Ile	Ser	Pro
305					310					315					320
Asp	Thr	His	Arg	Val	Pro	Tyr	His	Ile	Ser	Phe	Gly	Ser	Arg	Ile	Pro
				325					330					335	
Gly	Thr	Arg	Gly	Arg	Gln	Arg	Ala	Thr	Pro	Asp	Ala	Pro	Pro	Ala	Asp
			340					345					350		
Leu	Gln	Asp	Phe	Leu	Ser	Arg	Ile	Phe	Gln	Val	Pro	Pro	Gly	Gln	Met
		355					360					365			
Pro	Asn	Gly	Asn	Phe	Phe	Ala	Ala	Pro	Gln	Pro	Ala	Pro	Gly	Ala	Ala
	370					375					380				
Ala	Ala	Ser	Lys	Pro	Asn	Ser	Thr	Val	Pro	Lys	Gly	Glu	Ala	Lys	Pro
385					390					395					400
Lys	Arg	Arg	Lys	Lys	Val	Arg	Arg	Pro	Phe	Gln	Arg				
				405					410						

<210> 1677
 <211> 122
 <212> PRT
 <213> Homo sapiens
 <220>

Variable	1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2	
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Met Ala Leu Phe Arg Cys Val Trp Ser Val Leu Ser Ala Leu Gly Lys
1 5 10 15

Phe Ser Phe Ala Tyr Val Pro Arg Cys Phe Ser Ser Thr Ala Asn Ser
35 40 45

Tyr Pro Lys Lys Pro Leu Thr Ser Tyr Val Arg Phe Ser Lys Glu Gln
50 55 60

Leu Pro Ile Phe Lys Ala Gln Asn Pro Asp Ala Lys Asn Ser Glu Leu
65 70 75 80

Ile Arg Lys Ile Ala Gln Leu Trp Arg Glu Leu Pro Asp Ser Glu Lys
85 90 95

Lys Ile Tyr Glu Asp Ala Tyr Arg Ala Asp Leu Ala Gly His Thr Lys
100 105 110

Lys Glu Ile Asn Arg Ile Xaa Glu Pro Gly
115 120

<211> 246

<213> Homo sapiens

Met Ala Leu Phe Arg Cys Val Trp Ser Val Leu Ser Ala Leu Gly Lys
1 5 10 15

Ser Gly Ser Asp Leu Cys Ala Gly Cys Gly Ser Arg Leu Arg Ser Pro
20 25 30

Phe Ser Phe Ala Tyr Val Pro Arg Cys Phe Ser Ser Thr Ala Asn Ser
35 40 45

Tyr Pro Lys Lys Pro Leu Thr Ser Tyr Val Arg Phe Ser Lys Glu Gln
50 55 60

Leu Pro Ile Phe Lys Ala Gln Asn Pro Asp Ala Lys Asn Ser Glu Leu
65 70 75 80

Ile Arg Lys Ile Ala Gln Leu Trp Arg Glu Leu Pro Asp Ser Glu Lys
85 90 95

Lys Ile Tyr Glu Asp Ala Tyr Arg Ala Asp Trp Gln Ala Tyr Lys Glu
100 105 110

Glu Ile Asn Arg Ile Gln Glu Gln Leu Thr Pro Ser Gln Ile Val Ser
115 120 125

Leu Ser Thr Gly Trp Thr Gln Leu Ser Lys Leu Leu Glu Leu Thr Gly
100 105 110

Pro Lys Ser Leu Pro Ala Pro Trp Leu Ser Met Ala Pro Val Ser Trp
115 120 125

Ile Thr Pro Gly Leu Lys Thr Thr Ala Val Cys Arg Gly Val Leu Arg
130 135 140

Gly Val Thr Phe Leu Leu Arg Arg Glu Gly Asp His Glu Phe Leu Glu
145 150 155 160

Val Pro Glu Ala Gln Glu Asp Val Glu Ala Thr Phe Pro Val His Gln
165 170 175

Pro Gly Asn Tyr Ser Cys Ser Tyr Arg Thr Asp Gly Glu Gly Ala Leu
180 185 190

Ser Glu Pro Ser Ala Thr Val Thr Ile Glu Glu Leu Ala Ala Pro Pro
195 200 205

Pro Pro Val Leu Met His His Gly Glu Ser Ser Gln Val Leu His Pro
210 215 220

Gly Asn Lys Val Thr Leu Thr Cys Val Ala Pro Leu Ser Gly Val Asp
225 230 235 240

Phe Gln Leu Arg Arg Gly Glu Lys Glu Leu Leu Val Pro Arg Ser Ser
245 250 255

Thr Ser Pro Asp Arg Ile Phe Phe His Leu Asn Ala Val Ala Leu Gly
260 265 270

Asp Gly Gly His Tyr Thr Cys Arg Tyr Arg Leu His Asp Asn Gln Asn
275 280 285

Gly Trp Ser Gly Asp Ser Ala Pro Val Glu Leu Ile Leu Ser Asp Glu
290 295 300

Thr Leu Pro Ala Pro Glu Phe Ser Pro Glu Pro Glu Ser Gly Arg Ala
305 310 315 320

Leu Arg Leu Arg Cys Leu Ala Pro Leu Xaa Gly Ala Xaa Phe Ala Leu
325 330 335

Val Arg Glu Asp Arg Gly Gly Arg Arg Val His Arg Phe Gln Ser Pro
340 345 350

Ala Gly Thr Glu Ala Leu Phe Glu Leu His Asn Ile Ser Val Ala Asp
355 360 365

Ser Ala Asn Tyr Ser Cys Val Tyr Val Asp Leu Lys Pro Pro Phe Gly
370 375 380

Gly Ser Ala Pro Ser Glu Arg Leu Glu Leu His Val Asp Gly Pro Pro
385 390 395 400

Pro Arg Pro Gln Leu Arg Ala Thr Trp Ser Gly Ala Val Leu Ala Gly
405 410 415

Ser Glu Pro Ser Ala Thr Val Thr Ile Glu Glu Leu Ala Ala Pro Pro
195 200 205

Pro Pro Val Leu Met His His Gly Glu Ser Ser Gln Val Leu His Pro
210 215 220

Gly Asn Lys Val Thr Leu Thr Cys Val Ala Pro Leu Ser Gly Val Asp
225 230 235 240

Phe Gln Leu Arg Arg Gly Glu Lys Glu Leu Leu Val Pro Arg Ser Ser
245 250 255

Thr Ser Pro Asp Arg Ile Phe Phe His Leu Asn Ala Val Ala Leu Gly
260 265 270

Asp Gly Gly His Tyr Thr Cys Arg Tyr Arg Leu His Asp Asn Gln Asn
275 280 285

Gly Trp Ser Gly Asp Ser Ala Pro Val Glu Leu Ile Leu Ser Asp Glu
290 295 300

Thr Leu Pro Ala Pro Glu Phe Ser Pro Glu Pro Glu Ser Gly Arg Ala
305 310 315 320

Leu Arg Leu Arg Cys Leu Ala Pro Leu Glu Gly Ala Arg Phe Ala Leu
325 330 335

Val Arg Glu Asp Arg Gly Gly Arg Arg Val His Arg Phe Gln Ser Pro
340 345 350

Ala Gly Thr Glu Ala Leu Phe Glu Leu His Asn Ile Ser Val Ala Asp
355 360 365

Ser Ala Asn Tyr Ser Cys Val Tyr Val Asp Leu Lys Pro Pro Phe Gly
370 375 380

Gly Ser Ala Pro Ser Glu Arg Leu Glu Leu His Val Asp Gly Pro Pro
385 390 395 400

Pro Arg Pro Gln Leu Arg Ala Thr Trp Ser Gly Ala Val Leu Ala Gly
405 410 415

Arg Asp Ala Val Leu Arg Cys Glu Gly Pro Ile Pro Asp Val Thr Phe
420 425 430

Glu Leu Leu Arg Glu Gly Glu Thr Lys Ala Val Lys Thr Val Arg Thr
435 440 445

Pro Gly Ala Ala Ala Asn Leu Glu Leu Ile Phe Val Gly Pro Gln His
450 455 460

Ala Gly Asn Tyr Arg Cys Arg Tyr Arg Ser Trp Val Pro His Thr Phe
465 470 475 480

Glu Ser Glu Leu Ser Asp Pro Val Glu Leu Leu Val Ala Glu Ser
485 490 495

<210> 1681

Variable	Mean	SD	Min	Max
Age	38.5	12.5	25	65
Gender	Male	Female		
Marital Status	Married	Single		
Education	High School	College		
Occupation	Manager	Worker		
Income	\$30,000	\$40,000		
Health Status	Good	Fair		
Stress Level	Low	High		
Life Satisfaction	High	Low		
Resilience	High	Low		
Optimism	High	Low		
Gratitude	High	Low		
Forgiveness	High	Low		
Empathy	High	Low		
Compassion	High	Low		
Kindness	High	Low		
Generosity	High	Low		
Patience	High	Low		
Self-control	High	Low		
Emotional Stability	High	Low		
Psychological Well-being	High	Low		
Life Purpose	High	Low		
Meaning in Life	High	Low		
Existential Well-being	High	Low		
Transcendental Well-being	High	Low		
Overall Well-being	High	Low		

<210> 1683
 <211> 490
 <212> PRT
 <213> Homo sapiens

<400> 1683

Met	Gly	Lys	Asn	Lys	Tyr	Cys	Phe	Asp	Phe	Gly	Ile	Ser	Ser	Arg	Ser	1	5	10	15
His	Phe	Ser	Ala	Lys	Glu	Glu	Cys	Met	Leu	Ile	Gln	Arg	Asn	Thr	Ala	20	25	30	
Phe	Gln	Pro	Ser	Ser	Pro	Ser	Pro	Leu	Gln	Pro	Gln	Gly	Pro	Val	Lys	35	40	45	
Ser	Asn	Asn	Ile	Val	Thr	Val	Thr	Gly	Ile	Ser	Leu	Cys	Leu	Phe	Ile	50	55	60	
Ile	Ile	Ala	Thr	Val	Leu	Ile	Thr	Leu	Trp	Arg	Arg	Phe	Gly	Arg	Pro	65	70	75	80
Ala	Lys	Cys	Ser	Thr	Pro	Ala	Arg	His	Asn	Ser	Ile	His	Ser	Pro	Ser	85	90	95	
Phe	Arg	Lys	Asn	Ser	Asp	Glu	Glu	Asn	Ile	Cys	Glu	Leu	Ser	Glu	Gln	100	105	110	
Arg	Gly	Ser	Phe	Ser	Asp	Gly	Gly	Asp	Gly	Pro	Thr	Gly	Ser	Pro	Gly	115	120	125	
Asp	Thr	Gly	Ile	Pro	Leu	Thr	Tyr	Arg	Arg	Ser	Gly	Pro	Val	Pro	Pro	130	135	140	
Glu	Asp	Asp	Ala	Ser	Gly	Ser	Glu	Ser	Phe	Gln	Ser	Asn	Ala	Gln	Lys	145	150	155	160
Ile	Ile	Pro	Pro	Leu	Phe	Ser	Tyr	Arg	Leu	Ala	Gln	Gln	Gln	Leu	Lys	165	170	175	
Glu	Met	Lys	Lys	Lys	Gly	Leu	Thr	Glu	Thr	Thr	Lys	Val	Tyr	His	Val	180	185	190	
Ser	Gln	Ser	Pro	Leu	Thr	Asp	Thr	Ala	Ile	Asp	Ala	Ala	Pro	Ser	Ala	195	200	205	
Pro	Leu	Asp	Leu	Glu	Ser	Pro	Glu	Glu	Ala	Ala	Ala	Asn	Lys	Phe	Arg	210	215	220	
Ile	Lys	Ser	Pro	Phe	Pro	Glu	Gln	Pro	Ala	Val	Ser	Ala	Gly	Glu	Arg	225	230	235	240
Pro	Pro	Ser	Arg	Leu	Asp	Leu	Asn	Val	Thr	Gln	Ala	Ser	Cys	Ala	Ile	245	250	255	
Ser	Pro	Ser	Gln	Thr	Leu	Ile	Arg	Lys	Ser	Gln	Ala	Arg	His	Val	Gly	260	265	270	
Ser	Arg	Gly	Gly	Pro	Ser	Glu	Arg	Ser	His	Ala	Arg	Asn	Ala	His	Phe	275	280	285	

Arg Arg Thr Ala Ser Phe His Glu Ala Arg Gln Ala Arg Pro Phe Arg
 290 295 300

Glu Arg Ser Met Ser Thr Leu Thr Pro Arg Gln Ala Pro Ala Tyr Ser
 305 310 315 320

Ser Arg Thr Arg Thr Cys Glu Gln Ala Glu Asp Arg Phe Arg Pro Gln
 325 330 335

Ser Arg Gly Ala His Leu Phe Pro Glu Lys Leu Glu His Phe Gln Glu
 340 345 350

Ala Ser Gly Thr Arg Gly Pro Leu Asn Pro Leu Pro Lys Ser Tyr Thr
 355 360 365

Leu Gly Gln Pro Leu Arg Lys Pro Asp Leu Gly Asp His Gln Ala Gly
 370 375 380

Leu Val Ala Gly Ile Glu Arg Thr Glu Pro His Arg Ala Arg Arg Gly
 385 390 395 400

Pro Ser Pro Ser His Lys Ser Val Ser Arg Lys Gln Ser Ser Pro Ile
 405 410 415

Ser Pro Lys Asp Asn Tyr Gln Arg Val Ser Ser Leu Ser Pro Ser Gln
 420 425 430

Cys Arg Lys Asp Lys Cys Gln Ser Phe Pro Thr His Pro Glu Phe Ala
 435 440 445

Phe Tyr Asp Asn Thr Ser Phe Gly Leu Thr Glu Ala Glu Gln Arg Met
 450 455 460

Leu Asp Leu Pro Gly Tyr Phe Gly Ser Asn Glu Glu Asp Glu Thr Thr
 465 470 475 480

Ser Thr Leu Ser Val Glu Lys Leu Val Ile
 485 490

<210> 1684
 <211> 178
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (175)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1684
 Met Ala Met Val Pro Gly Ala Thr Leu Arg Arg Leu Leu Ser Val Val
 1 5 10 15

Leu Pro Thr Ala Ser Gln Pro Gln Leu Leu Ala Leu Leu Asp Ser Ala
 20 25 30
 Thr Glu Arg His Val Asp His Ala Ala Glu Ser Asp Gly Gly Ala Glu
 35 40 45
 Gln Ala Asp Val Gly Arg Arg Arg Lys His Gln Ser Trp Trp Gln Ala
 50 55 60
 Leu Asp Gly Lys Leu Arg Gly Asp Leu Ile Ser Arg Gly Leu Glu Lys
 65 70 75 80
 Met Leu Trp Ala Arg Lys Arg Lys Gln Ser Ile Leu Lys Lys Thr Cys
 85 90 95
 Leu Pro Leu Arg Glu Arg Met Ile Phe Ser Gly Lys Gly Ser Trp Pro
 100 105 110
 His Leu Ser Leu Glu Pro Ile Gly Glu Leu Xaa Pro Val Pro Ile Val
 115 120 125
 Gly Ala Glu Thr Ile Asp Leu Leu Asn Thr Gly Glu Lys Leu Phe Ile
 130 135 140
 Phe Arg Asn Pro Lys Glu Pro Glu Ile Ser Leu His Val Pro Pro Arg
 145 150 155 160
 Lys Lys Lys Asn Phe Leu Asn Ala Lys Lys Ala Met Arg Ala Xaa Gly
 165 170 175
 Met Asp

<210> 1685
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 1685
 Met Ala Met Val Pro Gly Ala Thr Leu Arg Arg Leu Leu Ser Val Val
 1 5 10 15
 Leu Pro Thr Ala Ser Gln Pro Gln Leu Leu Ala Leu Leu Asp Ser Ala
 20 25 30
 Thr Glu Arg His Val Asp His Ala Ala Glu Ser Asp Gly Gly Ala Glu
 35 40 45
 Gln Ala Asp Val Gly Arg Arg Arg Lys His Gln Ser Trp Trp Gln Ala
 50 55 60
 Leu Asp Gly Lys Leu Arg Gly Asp Leu Ile Ser Arg Gly Leu Glu Lys
 65 70 75 80
 Met Leu Trp Ala Arg Lys Arg Lys Gln Ser Ile Leu Lys Lys Thr Cys
 85 90 95
 Leu Pro Leu Arg Glu Arg Met Ile Phe Ser Gly Lys Gly Ser Trp Pro

100	105	110
His Leu Ser Leu Glu Pro Ile Gly Glu Leu Gly Pro Val Pro Ile Val		
115	120	125
Gly Ala Glu Thr Ile Asp Leu Leu Asn Thr Gly Glu Lys Leu Phe Ile		
130	135	140
Phe Arg Asn Pro Lys Glu Pro Glu Ile Ser Leu Thr Phe Leu Gln Glu		
145	150	155
Lys Glu Asp Leu Phe Glu Cys Pro Lys Gly His Glu Gly Leu Gly His		
165	170	175
Gly Leu Ala Gln Gly Lys Asp Leu Arg Glu His Met Lys Arg Glu Gly		
180	185	190
Met Ile Phe Ser Cys Pro Pro Val		
195	200	

<210> 1686
 <211> 419
 <212> PRT
 <213> Homo sapiens

<400> 1686
 Met Ser Cys Ala Gly Arg Ala Gly Pro Ala Arg Leu Ala Ala Leu Ala
 1 5 10 15
 Leu Leu Thr Cys Ser Leu Trp Pro Ala Arg Ala Asp Asn Ala Ser Gln
 20 25 30
 Glu Tyr Tyr Thr Ala Leu Ile Asn Val Thr Val Gln Glu Pro Gly Arg
 35 40 45
 Gly Ala Pro Leu Thr Phe Arg Ile Asp Arg Gly Arg Tyr Gly Leu Asp
 50 55 60
 Ser Pro Lys Ala Glu Val Arg Gly Gln Val Leu Ala Pro Leu Pro Leu
 65 70 75 80
 His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg Phe Phe
 85 90 95
 Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg Gly Asn
 100 105 110
 Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn Ala Val
 115 120 125
 Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu Pro Val Thr Met
 130 135 140
 Thr His Pro Gly Thr Gly Asp Ile Ile Ala Val Met Ile Thr Glu Leu
 145 150 155 160
 Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln
 165 170 175

Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg
180 185 190

Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile
195 200 205

Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr
210 215 220

Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys
225 230 235 240

Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys Gly Asp Lys Glu
245 250 255

Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile Glu Ser Tyr Lys
260 265 270

Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His Val Phe His Lys
275 280 285

Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr Cys Pro Met Cys
290 295 300

Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu Pro Cys
305 310 315 320

Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr Gln Ala
325 330 335

Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp Asn Ser Leu
340 345 350

Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu Pro Gln Asp
355 360 365

Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala Val Thr Lys
370 375 380

Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala Leu Thr Leu
385 390 395 400

Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala Asn Glu Val
405 410 415

Glu Trp Phe

<210> 1687
<211> 419
<212> PRT
<213> Homo sapiens

<400> 1687

Met Ser Cys Ala Gly Arg Ala Gly Pro Ala Arg Leu Ala Ala Leu Ala
1 5 10 15

Leu Leu Thr Cys Ser Leu Trp Pro Ala Arg Ala Asp Asn Ala Ser Gln
 20 25 30
 Glu Tyr Tyr Thr Ala Leu Ile Asn Val Thr Val Gln Glu Pro Gly Arg
 35 40 45
 Gly Ala Pro Leu Thr Phe Arg Ile Asp Arg Gly Arg Tyr Gly Leu Asp
 50 55 60
 Ser Pro Lys Ala Glu Val Arg Gly Gln Val Leu Ala Pro Leu Pro Leu
 65 70 75 80
 His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg Phe Phe
 85 90 95
 Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg Gly Asn
 100 105 110
 Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn Ala Val
 115 120 125
 Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu Pro Val Thr Met
 130 135 140
 Thr His Pro Gly Thr Gly Asp Ile Ile Ala Val Met Ile Thr Glu Leu
 145 150 155 160
 Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln
 165 170 175
 Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg
 180 185 190
 Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile
 195 200 205
 Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr
 210 215 220
 Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys
 225 230 235 240
 Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys Gly Asp Lys Glu
 245 250 255
 Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile Glu Ser Tyr Lys
 260 265 270
 Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His Val Phe His Lys
 275 280 285
 Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr Cys Pro Met Cys
 290 295 300
 Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu Pro Cys
 305 310 315 320
 Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr Gln Ala
 325 330 335

180				185				190							
Phe	Val	Ile	Tyr	Cys	Gly	Leu	Arg	Phe	Val	Ala	Ala	Phe	Gly	Met	Ala
		195					200					205			
Gly	Ile	Phe	Leu	Ser	Ser	Leu	Thr	Leu	Met	Val	Glu	Trp	Thr	Thr	Thr
	210					215					220				
Ser	Arg	Arg	Ala	Val	Thr	Met	Thr	Val	Val	Gly	Cys	Ala	Phe	Ser	Ala
225					230					235					240
Gly	Gln	Ala	Ala	Leu	Gly	Gly	Leu	Ala	Phe	Ala	Leu	Arg	Asp	Trp	Arg
				245					250					255	
Thr	Leu	Gln	Leu	Ala	Ala	Ser	Val	Pro	Phe	Phe	Ala	Ile	Ser	Leu	Ile
			260					265					270		
Ser	Trp	Trp	Leu	Pro	Glu	Ser	Ala	Arg	Trp	Leu	Ile	Ile	Lys	Gly	Lys
		275					280					285			
Pro	Asp	Gln	Ala	Leu	Gln	Glu	Leu	Arg	Lys	Val	Ala	Arg	Ile	Asn	Gly
	290					295					300				
His	Lys	Glu	Ala	Lys	Asn	Leu	Thr	Ile	Glu	Val	Leu	Met	Ser	Ser	Val
305					310					315					320
Lys	Glu	Glu	Val	Ala	Ser	Ala	Lys	Glu	Pro	Arg	Ser	Val	Leu	Asp	Leu
				325					330					335	
Phe	Cys	Val	Pro	Val	Leu	Arg	Trp	Arg	Ser	Cys	Ala	Met	Leu	Val	Val
			340					345					350		
Asn	Phe	Ser	Leu	Leu	Ile	Ser	Tyr	Tyr	Gly	Leu	Val	Phe	Asp	Leu	Gln
		355					360					365			
Ser	Leu	Gly	Arg	Asp	Ile	Phe	Leu	Leu	Gln	Ala	Leu	Phe	Gly	Ala	Val
		370				375					380				
Asp	Phe	Leu	Gly	Arg	Ala	Thr	Thr	Ala	Leu	Leu	Leu	Ser	Phe	Leu	Gly
385					390					395					400
Arg	Arg	Thr	Ile	Gln	Ala	Gly	Ser	Gln	Ala	Met	Gly	Gly	Leu	Ala	Ile
				405					410					415	
Leu	Ala	Asn	Met	Leu	Val	Pro	Gln	Val	Arg	Met	Thr	Ala	Asp	Gly	Ile
			420					425					430		
Leu	His	Thr	Val	Gly	Arg	Leu	Gly	Ala	Met	Met	Gly	Pro	Leu	Ile	Leu
		435					440					445			
Met	Ser	Arg	Gln	Ala	Leu	Pro	Leu	Leu	Pro	Pro	Leu	Leu	Tyr	Gly	Val
		450				455					460				
Ile	Ser	Ile	Ala	Ser	Ser	Leu	Val	Val	Leu	Phe	Phe	Leu	Pro	Glu	Thr
465					470					475					480
Gln	Gly	Leu	Pro	Leu	Pro	Asp	Thr	Ile	Gln	Asp	Leu	Glu	Ser	Gln	Lys
				485					490					495	
Ser	Thr	Ala	Ala	Gln	Gly	Asn	Arg	Gln	Glu	Ala	Val	Thr	Val	Glu	Ser

Thr Ser Leu
515

<210> 1690
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1690
Met Asp Trp Trp Phe Leu Ala Ile Ala Met Ala Leu Leu Trp Leu Thr
1 5 10 15

Thr Ser Arg Lys Gln Cys Cys Ser Thr Trp Ala Leu Leu Asn Tyr Met
20 25 30

Ala Leu Met Ile Leu Ile Gly Glu Asn Pro Asp Leu Leu Val Asn Leu
35 40 45

Asp Ser Leu Gln Glu Pro Val Cys Val Ile Leu Val Lys Gly Leu Leu
50 55 60

Phe Gln Arg Ile Ala Ala Asn Leu Gln Pro Leu Val Leu His His His
65 70 75 80

Thr Ile Gln Met Met Asn Lys Lys
85

<210> 1691
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1691
Met Asp Trp Trp Phe Leu Ala Ile Ala Met Ala Leu Leu Trp Leu Thr
1 5 10 15

Thr Ser Arg Lys Gln Cys Cys Ser Thr Trp Ala Leu Leu Asn Tyr Met
20 25 30

Ala Leu Met Ile Leu Ile Gly Glu Asn Pro Asp Leu Leu Val Asn Leu
35 40 45

Asp Ser Leu Gln Glu Pro Val Cys Val Ile Leu Val Lys Gly Leu Leu
50 55 60

Phe Gln Arg Ile Ala Ala Asn Leu Gln Pro Leu Gln Arg Cys Gln Gly
65 70 75 80

Ser

<210> 1692

Thr Ile Leu Arg Leu Lys Gly Ala Ile Leu Arg Met Ala Phe Leu Asp
165 170 175

Thr Thr Gly Cys Leu Ile Pro Pro Ala Tyr Glu Pro Trp Arg Glu His
180 185 190

Asn Val Pro Glu Glu Lys Asp Glu Lys Glu Lys Xaa Lys Lys Arg Arg
195 200 205

Pro Val Ser Val Ser Pro Ser Ser Ser Gln Glu Ile Ser Glu Asn Gln
210 215 220

Tyr Ala Val Ile Cys Ser Glu Lys Gln Ala Lys Val Ile Ser Leu Pro
225 230 235 240

Thr Gln Asn Cys Ala Tyr Lys Gln Asn Ile Thr Glu Thr Ser Phe Val
245 250 255

Leu Arg Gly Asp Ile Val Ala Leu Ser Asn Ser Ile Cys Leu Ala Cys
260 265 270

Phe Cys Ala Asn Gly His Ile Met Thr Phe Ser Leu Pro Ser Leu Arg
275 280 285

Pro Leu Leu Xaa Val Tyr Tyr Leu Pro Leu Thr Asn Met Arg Xaa Ala
290 295 300

Arg Thr Phe Cys Phe Thr Asn Asn Gly Gln Ala Leu Tyr Leu Val Ser
305 310 315 320

Pro Thr Glu Ile Gln Arg Leu Thr Tyr Ser Gln Glu Thr Cys Glu Asn
325 330 335

Leu Gln Glu Met Leu Gly Glu Leu Phe Thr Pro Val Glu Thr Pro Glu
340 345 350

Ala Pro Asn Arg Gly Phe Phe Lys Gly Leu Phe Gly Gly Gly Ala Gln
355 360 365

Ser Leu Asp Arg Glu Glu Leu Phe Gly Glu Ser Ser Ser Gly Lys Ala
370 375 380

Ser Arg Ser Leu Ala Gln His Ile Pro Gly Pro Gly Gly Ile Glu Gly
385 390 395 400

Val Lys Gly Ala Ala Ser Gly Val Val Gly Glu Leu Ala Arg Ala Arg
405 410 415

Leu Ala Leu Asp Glu Arg Gly Gln Lys Leu Gly Asp Leu Glu Glu Arg
420 425 430

Thr Ala Ala Met Leu Ser Ser Ala Glu Ser Phe Ser Lys His Ala His
435 440 445

Glu Ile Met Leu Lys Tyr Lys Asp Lys Lys Trp Tyr Gln Phe
450 455 460

<210> 1693

[illegible]

Met Leu Ile Ser Gly Trp Ala Arg Trp Leu Met Pro Leu Val Pro Ala
1 5 10 15

Gln Cys Gly Glu Thr Leu Ser Leu Leu Lys Ile Lys Lys Lys Lys Lys
35 40 45

Gln Pro Lys Leu Ile Thr Leu Cys Tyr Leu Trp Glu Pro His Leu Lys
65 70 75 80

Ser Asn Lys Met Leu Val Lys Val Arg Thr Gly Ser Ile Leu Asn Thr
100 105 110

<211> 82

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1694

Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu
1 5 10 15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys
20 25 30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Xaa His Cys Ser
35 40 45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln
50 55 60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Xaa Lys Ser Thr Ala

65

70

75

80

Val Lys

<210> 1695

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1695

Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu
 1 5 10 15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys
 20 25 30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Gly His Cys Ser
 35 40 45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln
 50 55 60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala
 65 70 75 80

Val Lys

<210> 1696

<211> 193

<212> PRT

<213> Homo sapiens

<400> 1696

Met Gln Leu Gly Thr Leu Leu Thr Phe Phe His Glu Leu Val Gln Thr
 1 5 10 15

Ala Leu Pro Ser Gly Ser Cys Val Asp Thr Leu Leu Lys Asp Leu Cys
 20 25 30

Lys Met Tyr Thr Thr Leu Thr Ala Leu Val Arg Tyr Tyr Leu Gln Val
 35 40 45

Cys Gln Ser Ser Gly Gly Ile Pro Lys Asn Met Glu Lys Leu Val Lys
 50 55 60

Leu Ser Gly Ser His Leu Thr Pro Leu Cys Tyr Ser Phe Ile Ser Tyr
 65 70 75 80

Val Gln Asn Lys Ser Lys Ser Leu Asn Tyr Thr Gly Glu Lys Lys Glu
 85 90 95

Lys Pro Ala Ala Val Ala Thr Ala Met Ala Arg Val Leu Arg Glu Thr
 100 105 110

Lys Pro Ile Pro Asn Leu Ile Phe Ala Ile Glu Gln Tyr Glu Lys Phe
 115 120 125

Leu Ile His Leu Ser Lys Lys Ser Lys Val Asn Leu Met Gln His Met
 130 135 140

Lys Leu Ser Thr Ser Arg Asp Phe Lys Ile Lys Gly Asn Ile Leu Asp
 145 150 155 160

Met Val Leu Arg Glu Asp Gly Glu Asp Glu Asn Glu Glu Gly Thr Ala
 165 170 175

Ser Glu His Gly Gly Gln Asn Lys Glu Pro Ala Lys Lys Lys Arg Lys
 180 185 190

Lys

<210> 1697
 <211> 193
 <212> PRT
 <213> Homo sapiens

<400> 1697
 Met Gln Leu Gly Thr Leu Leu Thr Phe Phe His Glu Leu Val Gln Thr
 1 5 10 15

Ala Leu Pro Ser Gly Ser Cys Val Asp Thr Leu Leu Lys Asp Leu Cys
 20 25 30

Lys Met Tyr Thr Thr Leu Thr Ala Leu Val Arg Tyr Tyr Leu Gln Val
 35 40 45

Cys Gln Ser Ser Gly Gly Ile Pro Lys Asn Met Glu Lys Leu Val Lys
 50 55 60

Leu Ser Gly Ser His Leu Thr Pro Leu Cys Tyr Ser Phe Ile Ser Tyr
 65 70 75 80

Val Gln Asn Lys Ser Lys Ser Leu Asn Tyr Thr Gly Glu Lys Lys Glu
 85 90 95

Lys Pro Ala Ala Val Ala Thr Ala Met Ala Arg Val Leu Arg Glu Thr
 100 105 110

Lys Pro Ile Pro Asn Leu Ile Phe Ala Ile Glu Gln Tyr Glu Lys Phe
 115 120 125

Leu Ile His Leu Ser Lys Lys Ser Lys Val Asn Leu Met Gln His Met
 130 135 140

Lys Leu Ser Thr Ser Arg Asp Phe Lys Ile Lys Gly Asn Ile Leu Asp
 145 150 155 160

Met Val Leu Arg Glu Asp Gly Glu Asp Glu Asn Glu Glu Gly Thr Ala
 165 170 175

Ser Glu His Gly Gly Gln Asn Lys Glu Pro Ala Lys Lys Lys Arg Lys
 1069

190

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<210> 1698
<211> 22
<212> PRT
<213> Homo sapiens
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Met Val Cys Asp Ser Leu Pro Arg His Asp Phe His Pro Ala Arg Leu
1 5 10 15

His Pro Thr Arg Phe Leu
20

<211> 271

<212> PRT

<213> Homo sapiens

Met Leu Ser Glu Lys His Leu Ile Ser Val Cys Ala Asp Asn Asn His
1 5 10 15

Val Arg Thr Trp Ser Val Thr Arg Phe Arg Gly Met Ile Ser Thr Gln
20 25 30

Pro Gly Ser Thr Pro Leu Ala Ser Phe Lys Ile Leu Ala Leu Glu Ser
35 40 45

Ala Asp Gly His Gly Gly Cys Ser Ala Gly Asn Asp Ile Gly Pro Tyr
50 55 60

Gly Glu Arg Asp Asp Gln Gln Val Phe Ile Gln Lys Val Val Pro Ser
65 70 75 80

Ala Ser Gln Leu Phe Val Arg Leu Ser Ser Thr Gly Gln Arg Val Cys
85 90 95

Ser Val Arg Ser Val Asp Gly Ser Pro Thr Thr Ala Phe Thr Val Leu
100 105 110

Glu Cys Glu Gly Ser Arg Arg Leu Gly Ser Arg Pro Arg Arg Tyr Leu
115 120 125

Leu Thr Gly Gln Ala Asn Gly Ser Leu Ala Met Trp Asp Leu Thr Thr
130 135 140

Ala Met Asp Gly Leu Gly Gln Ala Pro Ala Gly Gly Leu Thr Glu Gln
145 150 155 160

Glu Leu Met Glu Gln Leu Glu His Cys Glu Leu Ala Pro Pro Ala Pro
165 170 175

1070

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2
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Ser Ala Pro Ser Trp Gly Cys Leu Pro Ser Pro Ser Pro Arg Ile Ser
      180                                185                        190

Leu Thr Ser Leu His Ser Ala Ser Ser Asn Thr Ser Leu Ser Gly His
      195                                200                        205

Arg Gly Ser Pro Ser Pro Pro Gln Ala Glu Ala Arg Arg Arg Gly Gly
      210                                215                        220

Gly Ser Phe Val Glu Arg Cys Gln Glu Leu Val Arg Ser Gly Pro Asp
225                                230                        235                        240

Leu Arg Arg Pro Pro Thr Pro Ala Pro Trp Pro Ser Ser Gly Leu Gly
      245                                250                        255

Thr Pro Leu Thr Pro Pro Lys Met Lys Leu Asn Glu Thr Ser Phe
      260                                265                        270

<210> 1700
<211> 148
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1700
Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala
  1          5          10          15

Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys
      20          25          30

Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn
      35          40          45

Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe
      50          55          60

Ile Ile Val Ser Phe Gly Xaa Lys Ser Ala Trp Ser Ser Ala Gln Val
      65          70          75          80

Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu
      85          90          95

Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile
      100          105          110

His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Xaa Tyr Tyr Asp
      115          120          125

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<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1702

Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala
1 5 10 15

Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys
20 25 30

Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn
35 40 45

Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe
50 55 60

Ile Ile Val Ser Phe Gly Gln Lys Ser Ala Trp Ser Ser Ala Gln Val
65 70 75 80

Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu
85 90 95

Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile
100 105 110

His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Ser Tyr Tyr Asp
115 120 125

Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Val Ile Val Ser
130 135 140

Ile Glu Tyr Arg Leu Val Pro Lys Val Tyr Phe Pro Glu Gln Ile His
145 150 155 160

Asp Val Val Arg Ala Thr Lys Tyr Phe Leu Lys Pro Glu Val Leu Gln
165 170 175

Lys Tyr Met Val Asp Pro Gly Arg Ile Cys Ile Ser Gly Asp Ser Ala
180 185 190

Gly Gly Asn Leu Ala Ala Ala Leu Gly Gln Gln Phe Thr Gln Asp Ala
195 200 205

Ser Leu Lys Asn Lys Leu Lys Leu Gln Ala Leu Ile Tyr Pro Xaa Leu
210 215 220

Gln Ala Leu Asp Phe Asn Thr Pro Ser Tyr Gln Gln Asn Val Asn Thr
225 230 235 240

Pro Ile Leu Pro Arg Tyr Val Met Val Lys Tyr Trp Val Asp Tyr Phe
245 250 255

Lys Gly Asn Tyr Asp Phe Val Gln Ala Met Ile Val Asn Asn His Thr
260 265 270

Ser Leu Asp Val Glu Glu Ala Ala Ala Val Arg Ala Arg Leu Asn Trp
275 280 285

Thr Ser Leu Leu Pro Ala Ser Phe Thr Lys Asn Tyr Lys Pro Val Val
290 295 300

Gln Thr Thr Gly Asn Ala Arg Ile Val Gln Glu Leu Pro Gln Leu Leu
305 310 315 320

Asp Ala Arg Ser Ala Pro Leu Ile Ala Asp Gln Ala Val Leu Gln Leu
325 330 335

Leu Pro Lys Thr Tyr Ile Leu Thr Cys Glu His Asp Val Leu Arg Asp
340 345 350

Asp Gly Ile Met Tyr Ala Lys Arg Leu Glu Ser Ala Gly Val Glu Val
355 360 365

Thr Leu Asp His Phe Glu Asp Gly Phe His Gly Cys Met Ile Phe Thr
370 375 380

Ser Trp Pro Thr Asn Phe Ser Val Gly Ile Arg Thr Arg Asn Ser Tyr
385 390 395 400

Ile Lys Trp Leu Asp Gln Asn Leu
405

<210> 1703

<211> 88

<212> -PRT

<213> Homo sapiens

<400> 1703

Met Met Phe Cys Phe Val Leu Phe Leu Arg Trp Ser Leu Ala Leu Leu
1 5 10 15

Pro Gly Trp Leu Ala Val Ala Arg Ser Arg Leu Thr Ala Ile Ser Cys
20 25 30

Phe Leu Gly Leu Ser Asp Ser Pro Ala Leu Ala Ser Arg Val Ala Gly
35 40 45

Thr Thr Gly Ala His His His Ala Arg Leu Val Phe Cys Ile Leu Val
50 55 60

Glu Thr Val Ser Pro Cys Trp Pro Gly Trp Ser Arg Ser Pro Asp Phe
65 70 75 80

Val Ile Cys Leu Pro Gln Thr Pro
85

<210> 1704

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1704

Met Met Phe Cys Phe Val Leu Phe Leu Arg Trp Ser Leu Ala Leu Leu

1 5 10 15

Pro Gly Trp Leu Ala Val Ala Arg Ser Arg Leu Thr Ala Ile Ser Cys
 20 25 30

Phe Leu Gly Leu Ser Asp Ser Pro Ala Leu Ala Ser Arg Val Ala Gly
 35 40 45

Thr Thr Gly Ala His His His Ala Arg Leu Val Phe Cys Ile Leu Val
 50 55 60

Glu Thr Val Ser Pro Cys Trp Pro Gly Trp Ser Arg Ser Pro Asp Phe
 65 70 75 80

Val Ile Cys Leu Pro Gln Thr Pro
 85

<210> 1705
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 1705

Met Ile Gly Tyr Arg Leu Cys Leu His Leu Leu Ser Leu Leu Gly Phe
 1 5 10 15

Gln Pro Leu Pro Met Gly Leu Cys Arg Val Arg Glu Gln Lys Phe Lys
 20 25 30

Gln Phe Ser Gly Leu Ser His Phe Ser Phe Arg Ile Ser Pro Val Thr
 35 40 45

Phe Pro Ser Tyr Val His Ala Asp Ser Gln Pro Thr Arg Asp Lys Trp
 50 55 60

Val Pro Trp Asp Leu Ser Ser Phe Thr Cys Met Cys Ala Glu Ala Ser
 65 70 75 80

Lys Ser Ala Arg Asn Val Trp Thr Ala Leu Gln Thr Pro Leu
 85 90

<210> 1706
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1706

Ser Gln His Phe Gly Arg Pro Arg Trp Lys Asp Cys Leu Lys Pro Gly
 1 5 10 15

Val Arg Asp Gln Pro Gly Gln His Ser Lys Thr Pro Ser Leu Cys Lys
 20 25 30

Lys Lys Gly Ile Ile Leu Tyr Phe Leu Leu Ile Arg Phe Ile Cys Val
 35 40 45

[illegible]

<211> 101

<213> Homo sapiens

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

Val Ile Phe Phe Phe Phe Phe Ser Cys Arg Glu Arg Val Cys Val Ala
1 5 10 15

Gln Ala Gly Leu Asn Phe Met Ala Ser Ser Tyr Ser Ala Ser Ala Ser
20 25 30

Arg Ser Ala Gly Asn Ile Gly Met Ser His His Thr Gln Pro Leu Cys
35 40 45

Leu Leu Ser Phe Ser Ile Ile Ile Asn Leu Phe Met Phe Ile His Ser
50 55 60

Pro Val Asp Glu Xaa Leu Gly Cys Phe Gln Phe Trp Ala Val Thr Asn
65 70 75 80

Lys Ala Pro Gly Asn Ile Cys Val Gln Lys Lys Lys Lys Lys Lys Lys
85 90 95

Lys Lys Lys Lys Lys
100

<211> 123

<212> PRT

<213> Homo sapiens

Met Ala Trp Pro Asn Val Phe Gln Arg Gly Ser Leu Leu Ser Gln Phe
1 5 10 15

Ser His His His Val Val Val Phe Leu Leu Thr Phe Phe Ser Tyr Ser
20 25 30

Leu Leu His Ala Ser Arg Lys Thr Phe Ser Asn Val Lys Val Ser Ile
35 40 45

Ser Glu Gln Trp Thr Pro Ser Ala Phe Asn Thr Ser Val Glu Leu Pro
50 55 60

Leu Glu Ile Trp Ser Ser Asn His Leu Phe Pro Ser Ala Glu Lys Ala
65 70 75 80

Thr Leu Phe Leu Gly Thr Leu Asp Thr Ile Phe Leu Phe Ser Tyr Ala
85 90 95
Val Gly Leu Phe Ile Ser Gly Ile Val Gly Asp Arg Leu Asn Leu Arg
100 105 110
Trp Val Leu Leu Leu Ala Cys Ala Leu Leu His
115 120

<210> 1709
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1709
Leu Pro Asn Cys Tyr Leu Xaa Asp Thr Ile Glu Gly Thr Pro Ala Gly
1 5 10 15
Thr Gly Pro Glu Phe Ala Ala Ala Ser Thr Ser Leu Lys Glu Cys Arg
20 25 30
Ala Val Ile Ile Ala Ser Arg Gly Gln Pro Val Trp Pro Ala Leu Leu
35 40 45
Asp Val His Ala Val Asp Asp Phe Val Val Ser Cys Asn Leu Ala His
50 55 60
Arg Arg Ala Thr Ile Pro Glu Glu Asp Cys Ser Lys Leu Leu Pro Ser
65 70 75 80
Phe Pro Asp His Gly Asp Pro Leu Thr Val Phe Ser Pro Ser Asn Val
85 90 95
Phe Asp Leu Pro Ser Glu Arg Leu Val Leu Ile Leu Gln Gln Val Leu
100 105 110
Leu Leu Arg Gly Ile Pro Asp Pro Gln Leu Pro Arg His Ile Ser Gly
115 120 125
Gly Asn Val Glu Ser Ala Gly Arg Ile Leu Gly His His His Leu Met
130 135 140
Gly Val Leu Cys Val Asp Val Ser Lys Gly Trp Val Val Asp Val Pro
145 150 155 160

<210> 1710
<211> 21
<212> PRT

<213> Homo sapiens

<400> 1710

His His His Leu Met Gly Val Leu Cys Val Asp Val Ser Lys Gly Trp
1 5 10 15

Val Val Asp Val Pro
20

<210> 1711

<211> 185

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1711

Met Ala Trp Pro Asn Val Phe Gln Arg Gly Ser Leu Leu Ser Gln Phe
1 5 10 15

Ser His His His Val Val Val Phe Leu Leu Thr Phe Phe Ser Tyr Ser
20 25 30

Leu Leu His Ala Ser Arg Lys Thr Phe Ser Asn Val Lys Val Ser Ile
35 40 45

Ser Glu Gln Trp Thr Pro Ser Ala Phe Asn Thr Ser Val Glu Leu Pro
50 55 60

Leu Glu Ile Trp Ser Ser Asn His Leu Phe Pro Ser Ala Glu Lys Ala
65 70 75 80

Thr Leu Phe Leu Gly Thr Leu Asp Thr Ile Phe Leu Phe Ser Tyr Ala
85 90 95

Val Gly Leu Phe Ile Ser Gly Ile Val Gly Asp Arg Leu Asn Leu Arg
100 105 110

Trp Val Leu Ser Phe Gly Met Cys Ser Ser Ala Leu Val Val Phe Val
115 120 125

Phe Gly Ala Leu Thr Glu Trp Leu Arg Phe Tyr Asn Lys Trp Leu Tyr
130 135 140

Cys Cys Leu Trp Ile Val Asn Gly Leu Leu Gln Ser Thr Gly Trp Pro
145 150 155 160

Cys Val Xaa Ala Val Met Gly Asn Trp Phe Gly Lys Ala Gly Tyr Ala
165 170 175

Thr Ser Phe Leu Ser Asn Phe Ser Val
180 185

<210> 1712
 <211> 102
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1712
 Met Arg Val Ser Cys Ser Arg Ser Cys Cys Ser Leu Xaa Xaa Ile Ser
 1 5 10 15
 Leu Ser Leu Arg Leu Val Ala Ser Cys Leu Pro Cys Cys Leu Cys Leu
 20 25 30
 Ser Ala Ala Pro Arg Met Gln Glu Glu Pro Gly His Leu Arg Pro Ser
 35 40 45
 Arg Ala Arg Pro Leu Glu Gly Pro Ser Trp Asp Ser Pro Ser Leu Ala
 50 55 60
 Pro Pro Ala Ser Ala Gln Arg Pro Leu Pro Pro Pro Val Ser Arg Ile
 65 70 75 80
 Leu Pro Ala Thr Ser Gly Arg Ala Gly Arg Trp Cys Gly Trp Ala Pro
 85 90 95
 Cys Pro Lys Thr Ala Ala
 100

<210> 1713
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1713
 Val Trp Ala Arg Trp Pro Met Leu Ser Ile Pro Ala Ala Gln Gly Gly
 1 5 10 15
 Arg Leu Leu Glu Pro Lys His Ser Arg Leu Ala Trp Glu Thr Xaa Gln
 20 25 30
 Asp Pro Val Ser Thr Lys Thr Phe Lys Met Ser Gln Val Ala Gly Cys
 35 40 45
 Gly Gly Ser Cys Leu

<211> 173

<212> PRT

<213> Hom

<213> Homo sapiens

Met Leu Gln Pro Ala Pro Tyr Lys Pro Leu Pro Glu Val Gly Gly Leu
1 5 10 15

Leu Ser Ser Leu Leu Pro Leu Pro Leu Cys Ser Pro Gln Asp Ala Gly
20 25 30

Gly Ala Trp Thr Pro Ser Ala Gln Ser Gly Gln Ala Ser Gly Arg Pro
35 40 45

Phe Met Gly Leu Ser Ile Leu Gly Pro Ala Gly Leu Arg Pro Thr Ser
50 55 60

Ser Ser Ser Ser Ser Phe Pro Tyr Pro Ser Arg His Phe Gly Gln Gly
65 70 75 80

Trp Glu Val Val Arg Met Gly Ala Met Pro Gln Asn Ser Ser Leu Ser
85 90 95

Thr Ala Val Pro Ser Gly Met Gly Asp Gly Cys Gln Val Phe Trp Pro
100 105 110

Pro Ala Pro Cys Arg Ser Gln Leu Ser Pro Pro Ala Ser Gly Ser Phe
115 120 125

Pro Leu Phe Ser Pro Leu Gln Ala Pro Pro Ser Pro Ser Ser Asp Pro
130 135 140

Ala Gln Ala Pro Gly Ser Cys Gly Ser Ser Ser Gln Pro Arg His Ala
145 150 155 160

Pro Cys Ser Pro Pro Leu Pro Leu Ala Ala Pro Ser Ser
165 170

<211> 102

<212> PRT

<213> Hom

<213> Homo sapiens

Met Arg Val Ser Cys Ser Arg Ser Cys Cys Ser Leu Pro Pro Ile Ser
1 5 10 15

Leu Ser Leu Arg Leu Val Ala Ser Cys Leu Pro Cys Cys Leu Cys Leu
20 25 30

Ser Ala Ala Pro Arg Met Gln Glu Glu Pro Gly His Leu Arg Pro Ser
35 40 45

Arg Ala Arg Pro Leu Glu Gly Pro Ser Trp Asp Ser Pro Ser Leu Ala
50 55 60

Pro Pro Ala Ser Ala Gln Arg Pro Leu Pro Pro Pro Val Ser Arg Ile
65 70 75 80

Leu Pro Ala Thr Ser Gly Arg Ala Gly Arg Trp Cys Gly Trp Ala Pro
85 90 95

Cys Pro Lys Thr Ala Ala
100

<210> 1716
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1716
Met Pro Ala Pro Ala Arg Ser Cys Gln Arg Ala Ala Leu Ser Leu Trp
1 5 10 15

Ala Ser Gly Leu Gly Trp Leu Ser Ala Gln Pro Thr Val Ala Phe Arg
20 25 30

Gly Ser Ser Trp Asp Trp Glu Pro Pro Gln Gly Gln Ala Asp Gly Val
35 40 45

Arg Phe Val Leu Gly Leu Val Leu Pro Met Leu Gly Gly Gly Gly Ala
50 55 60

Pro Arg Thr Asp Gln Pro Cys Phe Ser Cys Asn Ala Val Thr Leu Ser
65 70 75 80

Leu Asn Thr Trp Ile His Val Trp Pro Gly Leu Ala Gly Ser Arg Ser
85 90 95

Pro Ala Arg Val Gly Ser His Gly Pro Ala Leu Glu Pro Pro Ser Gly
100 105 110

Pro Gly Ala Ala Glu Ala Ala Ser Glu Gly Leu Pro Arg Pro Ala Phe
115 120 125

His Arg Trp Gly Ala Gln Pro Ser Lys Ala Ala Xaa Thr Pro Pro Arg
130 135 140

Pro Val Cys Gln Gly Ala Gly His Asn Pro Ala Gly Pro Arg Thr Gly
145 150 155 160

Leu Gln Ala Ser Pro Cys Ala Pro Ala Gly Arg Pro Cys Ser Arg Glu
165 170 175

Glu Val Leu Gly
180

[illegible]

<400> 1718
Met Pro Ala Pro Ala Arg Ser Cys Gln Arg Ala Ala Leu Ser Leu Trp

1	5	10	15
Ala Ser Gly Leu Gly Trp Leu Ser Ala Gln Pro Thr Val Ala Phe Arg	20	25	30
Gly Ser Ser Trp Asp Trp Glu Pro Pro Gln Gly Gln Ala Asp Gly Val	35	40	45
Arg Phe Val Leu Gly Leu Val Leu Pro Met Leu Gly Gly Gly Gly Ala	50	55	60
Pro Arg Thr Asp Gln Pro Cys Phe Ser Cys Asn Ala Val Thr Leu Ser	65	70	75
Leu Asn Thr Trp Ile His Val Trp Pro Gly Leu Ala Gly Ser Arg Ser	85	90	95
Pro Ala Arg Val Gly Ser His Gly Pro Ala Leu Glu Pro Pro Ser Gly	100	105	110
Pro Gly Ala Ala Glu Ala Ala Ser Glu Gly Leu Pro Arg Pro Ala Phe	115	120	125
His Arg Trp Gly Ala Gln Pro Ser Lys Ala Ala Glu Thr Pro Pro Arg	130	135	140
Pro Val Cys Gln Gly Ala Gly His Asn Pro Ala Gly Pro Arg Thr Gly	145	150	155
Leu Gln Ala Ser Pro Cys Ala Pro Ala Gly Arg Pro Cys Ser Arg Glu	165	170	175
Glu Val Leu Gly	180		

<210> 1719

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

[illegible]

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu
1 5 10 15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg
20 25 30

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr
35 40 45

Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro
50 55 60

Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile
65 70 75 80

Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr
85 90 95

Val Ser Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu
100 105 110

Ala Tyr Ala Ile Gln Asn Val Xaa Phe Asp Ile Xaa Ile Xaa Ser Leu
115 120 125

Ile Ser Leu Ile Trp Ser Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr
130 135 140

Lys Gln Leu Xaa His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser
145 150 155 160

Ile Val Cys Ala Gly Met Met Ile Trp Asn Xaa Xaa Lys Glu Lys Asn
165 170 175

^o Phe

<213> Homo sapiens

Thr Thr Thr Lys Phe Ala Ala Ala Ser Thr Phe His Pro Ala Ser Lys
1 5 10 15

Ser Asn Ile Lys Lys Val Trp Met Ala Glu Gln Lys Ile Ser Tyr Asp
20 25 30

Lys Lys Lys Gln Glu Glu Leu Met Gln Gln Tyr Leu Lys Glu Gln Glu
35 40 45

Ser Tyr Asp Asn Arg Leu Leu Met Gly Asp Glu Arg Val Lys Asn Gly
50 55 60

Leu Asn Phe Met Tyr Glu Ala Pro Pro Gly Ala Lys Lys Glu Asn Lys
65 70 75 80

Glu Lys Glu Glu Thr Glu Gly Glu Thr Glu Tyr Lys Phe Glu Trp Gln
85 90 95

Lys Gly Ala Pro Arg Glu Lys Tyr Ala Lys Asp Asp Met Asn Ile Arg
100 105 110

Asp Gln Pro Phe Gly Ile Gln Val Arg Asn Val Arg Cys Ile Lys Cys
115 120 125

His Lys Trp Gly His Val Asn Thr Asp Arg Glu Cys Pro Leu Phe Gly
130 135 140

Leu Ser Gly Ile Asn Ala Ser Ser Val Pro Thr Asp Gly Ser Gly Pro
145 150 155 160

Ser Met His Pro Ser Glu Leu Ile Ala Glu Met Arg Asn Ser Gly Phe
165 170 175

Ala Leu Lys Arg Asn Val Leu Gly Arg Asn Leu Thr Ala Asn Asp Pro
180 185 190

Ser Gln Glu Tyr Val Ala Ser Glu Gly Glu Glu Asp Pro Glu Val Glu
195 200 205

Phe Leu Lys Ser Leu Thr Thr Lys Gln Lys Gln Lys Leu Leu Arg Lys
210 215 220

Leu Asp Arg Leu Glu Lys Lys Lys Lys Lys Asp Arg Lys Lys Lys
225 230 235 240

Lys Phe Gln Lys Ser Arg Ser Lys His Lys Lys His Lys Ser Ser Ser
245 250 255

Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Thr Glu Thr Ser Glu
260 265 270

Ser Ser Ser Glu Ser Glu Ser Asn Asn Lys Glu Lys Lys Ile Gln Arg
275 280 285

Lys Lys Arg Lys Lys Asn Lys Cys Ser Gly His Asn Asn Ser Asp Ser
290 295 300

Glu Glu Lys Asp Lys Ser Lys Lys Arg Lys Leu His Glu Glu Leu Ser
305 310 315 320

Ser Ser His His Asn Arg Glu Lys Ala Lys Glu Lys Pro Arg Phe Leu
325 330 335

Lys His Glu Ser Ser Arg Glu Asp Ser Lys Trp Ser His Ser Asp Ser
 340 345 350
 Asp Lys Lys Ser Arg Thr His Lys His Ser Pro Glu Lys Arg Gly Ser
 355 360 365
 Glu Arg Lys Glu Gly Ser Ser Arg Ser His Gly Arg Glu Glu Arg Ser
 370 375 380
 Arg Arg Ser Arg Ser Arg Ser Pro Gly Ser Tyr Lys Gln Arg Glu Thr
 385 390 395 400
 Arg Lys Arg Ala Gln Arg Asn Pro Gly Glu Glu Gln Ser Arg Arg Asn
 405 410 415
 Asp Ser Arg Ser His Gly Thr Asp Leu Tyr Arg Gly Glu Lys Met Tyr
 420 425 430
 Arg Glu His Pro Gly Gly Thr His Thr Lys Val Thr Gln Arg Glu
 435 440 445

<210> 1721
 <211> 177
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (148)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1721
 Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu
 1 5 10 15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg
 20 25 30

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr
 35 40 45
 Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro
 50 55 60
 Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile
 65 70 75 80
 Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr
 85 90 95
 Val Xaa Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu
 100 105 110
 Ala Tyr Ala Ile Gln Asn Val Ser Phe Asp Ile Ser Ile Val Ser Leu
 115 120 125
 Ile Ser Leu Ile Trp Xaa Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr
 130 135 140
 Lys Gln Leu Xaa His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser
 145 150 155 160
 Ile Val Cys Ala Gly Met Met Ile Trp Asn Xaa Xaa Lys Glu Lys Asn
 165 170 175

Phe

<210> 1722
 <211> 227
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1722
 Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu
 1 5 10 15
 Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg
 20 25 30
 Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr
 35 40 45
 Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro
 50 55 60
 Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile
 65 70 75 80
 Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr
 85 90 95

1087

09833345 041201

Ile Ser Leu Ile Trp Ser Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr
130 135 140

Lys Gln Leu Pro His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser
145 150 155 160

Ile Val Cys Ala Gly Met Met Ile Trp Asn Phe Val Lys Glu Lys Asn
165 170 175

Phe Val Gly Gln Ile Leu Val Phe Val Leu Leu Tyr Ser Ser Leu Tyr
180 185 190

Ser Thr Tyr Leu Trp Thr Gly Leu Leu Ala Ile Ser Leu Phe Leu Leu
195 200 205

Lys Lys Arg Glu Arg Val Gln Ile Pro Val Gly Ile Ile Ile Ile Ser
210 215 220

Gly Trp Gly
225

<210> 1724
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1724
Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly
1 5 10 15

Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly
20 25 30

Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser
35 40 45

Pro Asp Gly Pro Ala Ser Pro Thr Phe Gly Ala Arg Xaa Pro Ala Trp
50 55 60

Gly Gly Ile Arg Ala Val Val Ala Cys Asn Arg Arg Gly Thr Gly Gln
65 70 75 80

Arg Xaa Thr Arg Ala Lys Leu
85

<210> 1725

<211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1725
 Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly
 1 5 10 15

Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly
 20 25 30

Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser
 35 40 45

Pro Asp Gly Pro Ala Ser Pro Thr Ser Gly Pro Val Gly Arg Pro Gly
 50 55 60

Gly Val Ser Gly Pro Ser Trp Leu Gln Pro Pro Gly Thr Gly Ala Ala
 65 70 75 80

Gln Ser Pro Arg Lys Ala Pro Arg Arg Pro Gly Pro Gly Met Cys Gly
 85 90 95

Pro Ala Asn Trp Gly Tyr Val Leu Gly Arg Pro Gly Arg Gly Pro Asp
 100 105 110

Glu Tyr Xaa Glu Ala Ala Thr Ala Ala Pro Xaa Leu Arg Asn Leu Arg
 115 120 125

Ala Arg Cys Pro Glu Leu Ala Arg Gly Met Val Xaa Phe Trp Ala Thr
 130 135 140

Thr Leu
 145

<210> 1726
 <211> 405
 <212> PRT
 <213> Homo sapiens

<400> 1726
 Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly
 1 5 10 15

Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly
 20 25 30
 Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser
 35 40 45
 Pro Asp Gly Pro Ala Ser Pro Thr Ser Gly Pro Val Gly Arg Pro Gly
 50 55 60
 Gly Val Ser Gly Pro Ser Trp Leu Gln Pro Pro Gly Thr Gly Ala Ala
 65 70 75 80
 Gln Ser Pro Arg Lys Ala Pro Arg Arg Pro Gly Pro Gly Met Cys Gly
 85 90 95
 Pro Ala Asn Trp Gly Tyr Val Leu Gly Gly Arg Gly Arg Gly Pro Asp
 100 105 110
 Glu Tyr Glu Lys Arg Tyr Ser Gly Ala Phe Pro Pro Gln Leu Arg Ala
 115 120 125
 Gln Met Arg Asp Leu Ala Arg Gly Met Phe Val Phe Gly Tyr Asp Asn
 130 135 140
 Tyr Met Ala His Ala Phe Pro Gln Asp Glu Leu Asn Pro Ile His Cys
 145 150 155 160
 Arg Gly Arg Gly Pro Asp Arg Gly Asp Pro Ser Asn Leu Asn Ile Asn
 165 170 175
 Asp Val Leu Gly Asn Tyr Ser Leu Thr Leu Val Asp Ala Leu Asp Thr
 180 185 190
 Leu Ala Ile Met Gly Asn Ser Ser Glu Phe Gln Lys Ala Val Lys Leu
 195 200 205
 Val Ile Asn Thr Val Ser Phe Asp Lys Asp Ser Thr Val Gln Val Phe
 210 215 220
 Glu Ala Thr Ile Arg Val Leu Gly Ser Leu Leu Ser Ala His Arg Ile
 225 230 235 240
 Ile Thr Asp Ser Lys Gln Pro Phe Gly Asp Met Thr Ile Lys Asp Tyr
 245 250 255
 Asp Asn Glu Leu Leu Tyr Met Ala His Asp Leu Ala Val Arg Leu Leu
 260 265 270
 Pro Ala Phe Glu Asn Thr Lys Thr Gly Ile Pro Tyr Pro Arg Val Asn
 275 280 285
 Leu Lys Thr Gly Val Pro Pro Asp Thr Asn Asn Glu Thr Cys Thr Ala
 290 295 300
 Gly Ala Gly Ser Leu Leu Val Glu Phe Gly Ile Leu Ser Arg Leu Leu
 305 310 315 320
 Gly Asp Ser Thr Phe Glu Trp Val Ala Arg Arg Ala Val Lys Ala Leu
 325 330 335

<210> 1728
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1728
 Lys Tyr Ser Tyr Cys Ser His Leu His Phe Xaa Met Asn Glu Ser Ala
 1 5 10 15
 Leu Phe Cys Ser Asn Phe His Trp Lys Pro Val Gly Ser Glu Arg Leu
 20 25 30
 Trp Pro Pro Leu Ile Ile Tyr Asp Leu Lys Pro Ala Cys Asn Arg Glu
 35 40 45
 Pro Leu Gln Ser Leu
 50

<210> 1729
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 1729
 Met Ile Leu Trp Leu Asp Trp Ala Leu Phe Leu Leu Val Phe Pro Gly
 1 5 10 15
 Gln Phe Phe Cys Trp Phe Cys Leu Gly Ser Leu Met Arg Leu Gln Val
 20 25 30
 Ala Ala Gly Ser Ala Ser Val Trp Gly Ser Ala Gly Met Thr Trp Pro
 35 40 45
 Leu Ser Ala Cys Gly Pro Leu Ser Ser Met Met Val Ser Gly Phe Gln
 50 55 60
 Ala Ser Lys Pro Gln Cys Thr Ser Ile Tyr Pro Ala Phe Ala Cys Ile
 65 70 75 80
 Ala Leu Ala His Val Ser Leu Ala Lys Thr Asp His Val Ala Lys Leu
 85 90 95
 Arg Val Ser Val Gly Arg Val Tyr Thr Ser Ala Trp Ile Leu Lys Gly
 100 105 110
 Met Ile His Trp Gly Pro Leu Leu
 115 120

<210> 1730
 <211> 485
 <212> PRT

<213> Homo sapiens

<400> 1730

Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp
1 5 10 15

Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu
20 25 30

Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Gln Glu His Lys Thr Lys
35 40 45

Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu
50 55 60

Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile
65 70 75 80

Arg Gly Ile Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala
85 90 95

Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr
100 105 110

Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe
115 120 125

Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe
130 135 140

Thr Met Leu Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met
145 150 155 160

Val Ala Thr Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro
165 170 175

Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val
180 185 190

Arg Lys Thr Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met
195 200 205

Val Lys Val Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp
210 215 220

Pro Glu Pro Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu
225 230 235 240

Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser
245 250 255

Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr
260 265 270

Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu
275 280 285

Ser Leu Val Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu
290 295 300

Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr
 305 310 315 320

Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp
 325 330 335

Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly
 340 345 350

Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu
 355 360 365

Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile
 370 375 380

Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala
 385 390 395 400

Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala
 405 410 415

Ser Asp Asn Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg
 420 425 430

His Pro Asn Thr Gln Gln Arg Ala Ser Lys Lys Lys Pro Lys Val Val
 435 440 445

Phe Ser Ser Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr
 450 455 460

Glu Asp Glu Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala
 465 470 475 480

Arg Arg His Arg Ser
 485

<210> 1731
 <211> 485
 <212> PRT
 <213> Homo sapiens

<400> 1731
 Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp
 1 5 10 15

Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu
 20 25 30

Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Gln Glu His Lys Thr Lys
 35 40 45

Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu
 50 55 60

Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile
 65 70 75 80

Arg Gly Ile Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala

Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr
 100 105 110

Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe
 115 120 125

Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe
 130 135 140

Thr Met Leu Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met
 145 150 155 160

Val Ala Thr Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro
 165 170 175

Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val
 180 185 190

Arg Lys Thr Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met
 195 200 205

Val Lys Val Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp
 210 215 220

Pro Glu Pro Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu
 225 230 235 240

Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser
 245 250 255

Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr
 260 265 270

Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu
 275 280 285

Ser Leu Val Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu
 290 295 300

Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr
 305 310 315 320

Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp
 325 330 335

Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly
 340 345 350

Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu
 355 360 365

Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile
 370 375 380

Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala
 385 390 395 400

Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala

415

Arg Arg His Arg Ser
485

<213> Homo sapiens

Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val
180 185 190

1097

[illegible]

[illegible]

<210> 1733
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1733
Met Val Val Thr Thr Glu Pro Leu Thr Gln Ala Val Val Asp Lys Thr
1 5 10 15
Leu Leu Leu Val Val Leu Leu Leu Gly Val Thr Leu Phe Ile Thr Val
20 25 30
Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser Tyr Lys Lys Lys Asp
35 40 45
Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met Tyr Ala Asp Ser Glu
50 55 60
Met
65

<210> 1734
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1734
Met Val Val Thr Thr Glu Pro Leu Thr Gln Ala Val Val Asp Lys Thr
1 5 10 15
Leu Leu Leu Val Val Leu Leu Leu Gly Val Thr Leu Phe Ile Thr Val
20 25 30
Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser Tyr Lys Lys Lys Asp
35 40 45
Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met Tyr Ala Asp Ser Glu
50 55 60
Met
65

<210> 1735
<211> 342
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (271)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1735

Met Trp Thr Ala Leu Val Leu Ile Trp Ile Phe Ser Leu Ser Leu Ser
1 5 10 15
Glu Ser His Ala Ala Ser Asn Asp Pro Arg Asn Phe Val Pro Asn Lys
20 25 30
Met Trp Lys Gly Leu Val Lys Arg Asn Ala Ser Val Glu Thr Val Asp
35 40 45
Asn Lys Thr Ser Glu Asp Val Thr Met Ala Ala Ala Ser Pro Val Thr
50 55 60
Leu Thr Lys Gly Thr Ser Ala Ala His Leu Asn Ser Met Glu Val Thr
65 70 75 80
Thr Glu Asp Thr Ser Arg Thr Asp Val Ser Glu Pro Ala Thr Ser Gly
85 90 95
Gly Ala Ala Asp Gly Val Thr Ser Ile Ala Pro Thr Ala Val Ala Ser
100 105 110
Ser Thr Thr Ala Ala Ser Ile Thr Thr Ala Ala Ser Ser Met Thr Val
115 120 125
Ala Ser Ser Ala Pro Thr Thr Ala Ala Ser Ser Thr Thr Val Ala Ser
130 135 140
Ile Ala Pro Thr Thr Xaa Ala Ser Ser Met Thr Ala Ala Ser Ser Thr
145 150 155 160
Pro Met Thr Leu Ala Leu Pro Ala Pro Thr Ser Thr Ser Thr Gly Arg
165 170 175
Thr Pro Ser Thr Thr Ala Thr Gly His Pro Ser Leu Ser Thr Ala Leu
180 185 190
Ala Gln Val Pro Lys Ser Ser Ala Leu Pro Arg Thr Ala Thr Leu Ala
195 200 205
Thr Leu Ala Thr Arg Ala Gln Thr Val Ala Thr Thr Ala Asn Thr Ser
210 215 220
Ser Pro Met Ser Thr Arg Pro Ser Pro Ser Lys His Met Pro Ser Asp
225 230 235 240
Thr Ala Ala Ser Pro Val Pro Pro Met Arg Pro Gln Ala Gln Gly Pro
245 250 255
Ile Ser Gln Val Ser Val Asp Gln Pro Val Val Asn Thr Thr Xaa Lys
260 265 270
Ser Thr Pro Met Pro Ser Asn Thr Thr Thr Glu Pro Leu Thr Gln Ala
275 280 285
Val Val Asp Lys Thr Leu Leu Leu Val Val Leu Leu Leu Gly Val Thr
290 295 300
Leu Phe Ile Thr Val Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser

1100

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[illegible]

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<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids
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<210> 1737
<211> 79
<212> PRT
<213> Homo sapiens
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1101

50

55

60

Ala Pro Leu Ser Leu Arg Ser Met Val Phe His Asn Ala Pro Ile
65 70 75

<210> 1738

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1738

Met Thr Leu Pro Thr Ser Gln Cys Leu Ile Cys Leu Leu Gln Ala Leu
1 5 10 15

Cys Gly Ile Gly His Gly Ala Leu Ala Trp Gly Ser Asn Gln Val Leu
20 25 30

Phe Pro Gly Gly Gln Gln Glu Asp Gly Gly Cys Gln Arg Ile Pro Asp
35 40 45

Pro Ser Phe Leu Ser Thr Pro Cys Gly Lys Gln Gly Gly His Ala Glu
50 55 60

Gln Glu Leu Gln Gln Cys Trp Gly Ala Phe Cys Gln Leu Pro Gly Cys
65 70 75 80

Val Leu His Phe His Pro Gly Val Leu His Lys Ala His Ser Glu Trp
85 90 95

<210> 1739

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1739

Met Ala Leu Pro Arg Cys Thr Trp Pro Asn Tyr Val Trp Arg Ala Val
1 5 10 15

Met Ala Cys Leu Val His Arg Gly Leu Gly Ala Pro Leu Thr Leu Cys
20 25 30

Met Leu Gly Cys Leu Leu Gln Ala Gly His Val Leu Ser Gln Lys Leu
35 40 45

Asp Asp Val Asp Pro Leu Val Ala Thr Asn Phe Gly Lys Ile Arg Gly
50 55 60

Ile Lys Lys Glu Leu Asn Asn Glu Ile Leu Gly Pro Val Ile Gln Phe
65 70 75 80

Leu Gly Val Pro Tyr Ala Ala Pro Pro Thr Gly Glu Arg Arg Phe Gln
85 90 95

Pro Pro Glu Pro Pro Ser Pro Trp Ser Asp Ile Arg Asn Ala Thr Gln
100 105 110

Phe Ala Pro Val Cys Pro Gln Asn Ile Ile Asp Gly Arg Leu Pro Glu
115 120 125

Val Met Leu Pro Val Xaa Phe Thr Asn Asn Leu Asp Val Xaa Ser Ser
130 135 140

Tyr Val Gln Asp Gln Ser Glu Arg Leu Xaa Ile Phe Lys Tyr Ile Cys
145 150 155 160

Xaa Asp

<210> 1740

<211> 228

<212> PRT

<213> Homo sapiens

<400> 1740

Met Ala Leu Pro Arg Cys Thr Trp Pro Asn Tyr Val Trp Arg Ala Val
1 5 10 15

Met Ala Cys Leu Val His Arg Gly Leu Gly Ala Pro Leu Thr Leu Cys
20 25 30

Met Leu Gly Cys Leu Leu Gln Ala Gly His Val Leu Ser Gln Lys Leu
35 40 45

Asp Asp Val Asp Pro Leu Val Ala Thr Asn Phe Gly Lys Ile Arg Gly
50 55 60

Ile Lys Lys Glu Leu Asn Asn Glu Ile Leu Gly Pro Val Ile Gln Phe
65 70 75 80

Leu Gly Val Pro Tyr Ala Ala Pro Pro Thr Gly Glu Arg Arg Phe Gln
85 90 95

1103

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[illegible]

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<210> 1741
<211> 94
<212> PRT
<213> Homo sapiens
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<210> 1742  
<211> 94  
<212> PRT  
<213> Homo sapiens
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<400> 1742

Met Leu Pro Thr Leu Thr Ala Pro Thr Leu Ala Leu Leu Leu Leu Pro
1 5 10 15

Lys Ile Ser Cys Leu Leu Thr Ser Thr His Pro Arg Thr Gln Gly Ser
20 25 30

Arg Ala His Phe Pro Arg Ala Trp Arg Leu Asp Pro Gly Glu Phe Leu
35 40 45

His Pro Leu Gln Asp Pro His Ser Ser Pro Leu Trp Ser Leu Asp His
50 55 60

Arg Trp Arg Trp Pro Glu Leu Thr Cys Trp Leu Trp Gly His Ser Ser
65 70 75 80

Cys Trp Pro Arg Met Arg Arg Gly Thr Arg Glu Tyr Lys Gly
85 90

<210> 1743

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1743

Met Arg Thr Asp Tyr Pro Arg Xaa Xaa Arg Ser Cys Leu Cys Val Ser
1 5 10 15

Leu Ser Pro Pro Leu Val Ser Lys Gly Ser His Arg Ser Arg Trp Leu
20 25 30

Arg Thr Met Ala Val Pro Ala Gly Thr Gln Val Trp Arg Gln Asp Leu
35 40 45

Gln Pro Leu Gly Ala Val Leu Leu Gln
50 55

<210> 1744

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1744

Met Arg Thr Asp Tyr Pro Arg Ser Val Leu Ala Pro Ala Tyr Val Ser
1 5 10 15

Val Cys Leu Leu Leu Leu Cys Pro Arg Glu Val Ile Ala Pro Ala Gly
20 25 30

Ser Glu Pro Trp Leu Cys Gln Pro Ala Pro Arg Cys Gly Asp Lys Ile
35 40 45

Tyr Asn Pro Leu Glu Gln Cys Cys Tyr Asn Asp Ala Ile Val Ser Leu
50 55 60

Ser Glu Thr Arg Gln Cys Gly Pro Pro Cys Thr Phe Trp Pro Cys Phe
65 70 75 80

Glu Leu Cys Cys Leu Asp Ser Phe Gly Leu Thr Asn Asp Phe Val Val
85 90 95

Lys Leu Lys Val Gln Gly Val Asn Ser Gln Cys His Ser Ser Pro Ile
100 105 110

Ser Ser Lys Cys Glu Ser Arg Arg Arg Phe Pro
115 120

<210> 1745
<211> 107
<212> PRT
<213> Homo sapiens

<400> 1745
Met His Pro Leu Pro Cys Leu His Leu Trp Glu Phe Phe Leu Ser Glu
1 5 10 15

Trp Gly Gln Phe Leu Ala Gln Gly Ser Glu Leu Arg Gln Pro Gln Gly
20 25 30

Arg Gly Pro Tyr Leu Leu Ser Ser Val Leu Gly Tyr Arg Glu Gln Pro
35 40 45

Gly Asp Ser Leu Val Pro Pro Pro Trp Arg Val Ser Leu Thr His Ser
50 55 60

Pro Ser Leu Arg Ala Ser Trp Pro Thr Ala Ser Leu Trp Glu Ser Gly
65 70 75 80

Arg Arg Ala Arg Trp Val Ala Gly Ala Arg Leu Leu Ser Pro Pro Pro
85 90 95

Ala Asp Phe Leu Leu Leu Pro Leu Ile Pro Phe
100 105

<210> 1746
<211> 107
<212> PRT
<213> Homo sapiens

<400> 1746
Met His Pro Leu Pro Cys Leu His Leu Trp Glu Phe Phe Leu Ser Glu
1106

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<221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1748

Asp Val Leu Gln Ile Thr Phe Trp Trp Pro Leu Val Thr Ala Val Ser
 1 5 10 15
 Leu Gln Gly Leu Asn Lys Xaa Leu Ser Pro Ile Pro Phe His Thr Cys
 20 25 30
 Val Val Tyr Tyr Trp Gln Ala Ser Val Leu Arg Val Ser Asn Gly Thr
 35 40 45
 Asp Gly Cys Gln Thr Leu Trp Ile Ser Ala Ser Pro Gly Trp
 50 55 60

<210> 1749

<211> 120

<212> PRT

<213> Homo sapiens

<400> 1749

Met Ala Gly Tyr Gln Lys His His Gly Ser Phe Ala Ile Cys Cys Leu
 1 5 10 15
 Phe Ser Ala Leu Ser Leu Thr Leu Ser Phe Gln Glu Gly Glu Asn Glu
 20 25 30
 Cys Phe Pro Ala Phe Ser Val Leu Cys Ser Lys Glu Glu Ser Arg Cys
 35 40 45
 Trp Leu Pro Asn Leu Pro Tyr Phe Leu Ile Ala Val Arg Gly Ile Asn
 50 55 60
 Cys Met Phe Pro Glu Gly Lys Gly Trp Leu Thr Asp Leu Leu Glu Gly
 65 70 75 80
 Ile Leu Ser Val Glu Ala Gly Gln Glu Asn Pro Gly Ile Ser Phe Ala
 85 90 95
 Gly Phe Cys Ala Val Pro Leu Pro Ser Ser Cys Leu Lys Cys Glu Tyr
 100 105 110
 Cys Phe Pro Ala Phe Gln Arg Trp
 115 120

<210> 1750

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1750

Met Asp Asp Phe Leu Phe Ser Val Ser Ile Leu Ser Gly Ile Leu Cys
 1 5 10 15

Variable	Mean	SD	Min	Max
Age	38.5	10.2	25	55
Gender	0.5	0.5	0	1
Marital Status	0.7	0.5	0	1
Education	12.5	1.5	9	16
Income	3500	1500	1000	8000
Health Status	0.8	0.4	0	1
Exercise Frequency	2.5	1.5	0	5
Stress Level	4.5	1.5	1	7
Sleep Quality	3.5	1.5	1	6
Dietary Habits	2.5	1.5	0	5
Work-Life Balance	3.5	1.5	1	6
Family Support	4.5	1.5	1	7
Community Involvement	2.5	1.5	0	5
Overall Well-being	4.5	1.5	1	7

<211> 186

<213> Homo sapiens

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile
1 5 10 15

Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu
35 40 45

Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg
65 70 75 80

Asn Thr Ala Val Ile Glu Lys Gln Val Leu Glu Leu Trp Asp Arg Leu
100 105 110

Tyr His Ser Trp Phe Val Lys Asn Val Thr His Ser Gly Arg His Lys
115 120 125

<210> 1753
 <211> 424
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (183)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1753
 Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile
 1 5 10 15
 Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu
 20 25 30
 Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu
 35 40 45
 Ala Asn His Pro Glu Trp Ala Asn Trp Leu Pro Glu Ala Gln Val Val
 50 55 60
 Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg
 65 70 75 80
 Glu Trp Ile Thr His Lys Leu His Lys Ile Leu Gly Asp Lys Val Asn
 85 90 95
 Asn Thr Ala Val Ile Glu Lys Gln Val Leu Glu Leu Trp Asp Arg Leu
 100 105 110
 Tyr His Ser Trp Phe Val Lys Asn Val Thr His Ser Gly Arg His Lys
 115 120 125
 Gly Gln Lys Leu His Val Ser Arg Gln Xaa Ser Trp Leu Gly Asp Ile
 130 135 140
 Leu Asp Trp Gln Asp Ile Val Ser Phe Val His Glu Asn Ile Glu Thr
 145 150 155 160
 Phe Leu Ser Ile Leu Glu Ser Leu Trp Ile Val Met Ser Arg Asn Val
 165 170 175
 Ser Leu Leu Phe Thr Thr Xaa Thr Thr Leu Leu Thr Ile Leu Phe Tyr
 180 185 190
 Ser Gly Thr Ala Leu Leu Asn Phe Val Leu Ser Leu Ile Ile Phe Leu

195 200 205

Thr Thr Leu Phe Tyr Leu Leu Ser Ser Ser Asp Glu Tyr Tyr Lys Pro
210 215 220

Val Lys Trp Val Ile Ser Leu Thr Pro Leu Ser Gln Pro Gly Pro Ser
225 230 235 240

Ser Asn Ile Ile Gly Gln Ser Val Glu Glu Ala Ile Arg Gly Val Phe
245 250 255

Asp Ala Ser Leu Lys Met Ala Gly Phe Tyr Gly Leu Tyr Thr Trp Leu
260 265 270

Thr His Thr Met Phe Gly Ile Asn Ile Val Phe Ile Pro Ser Ala Leu
275 280 285

Ala Ala Ile Leu Gly Ala Val Pro Phe Leu Gly Thr Tyr Trp Ala Ala
290 295 300

Val Pro Ala Val Leu Asp Leu Trp Leu Thr Gln Gly Leu Gly Cys Lys
305 310 315 320

Ala Ile Leu Leu Leu Ile Phe His Leu Leu Pro Thr Tyr Phe Val Asp
325 330 335

Thr Ala Ile Tyr Ser Asp Ile Ser Gly Gly Gly His Pro Tyr Leu Thr
340 345 350

Gly Leu Ala Val Ala Gly Gly Ala Tyr Tyr Leu Gly Leu Glu Gly Ala
355 360 365

Ile Ile Gly Pro Ile Leu Leu Cys Ile Leu Val Val Ala Ser Asn Ile
370 375 380

Tyr Ser Ala Met Leu Val Ser Pro Thr Asn Ser Val Pro Thr Pro Asn
385 390 395 400

Gln Thr Pro Trp Pro Ala Gln Pro Gln Arg Thr Phe Arg Asp Ile Ser
405 410 415

Glu Asp Leu Lys Ser Ser Val Gly
420

<210> 1754
<211> 385
<212> PRT
<213> Homo sapiens

<400> 1754
Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile
1 5 10 15
Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu
20 25 30
Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu
35 40 45

[illegible]

210	215	220
Asn Gly Tyr Arg Arg Phe Asp Pro Ala Arg Gly Met Glu Tyr Thr Leu 225 230 235 240		
Asp Pro Gly Ser Thr His Ala Ser Glu Arg Gly His Arg Arg Ala Leu 245 250 255		
Ala Arg Arg Val Ser Leu Leu Arg Pro Leu Ser Arg Val Glu Ile Leu 260 265 270		
Pro Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro 275 280 285		
Leu Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe 290 295 300		
Ala Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu 305 310 315 320		
Leu Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe 325 330 335		
Leu Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly 340 345 350		
Thr Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val 355 360 365		
Arg Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe 370 375 380		
Phe Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg 385 390 395 400		
Cys Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His 405 410 415		
Phe Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly 420 425 430		
Pro Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro 435 440 445		
Ser Arg Gly Ala Pro Ile Ala Gly Arg Phe Asp Arg Gln Ala Ser Ala 450 455 460		
Glu Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu 465 470 475 480		
Ala Gly Glu Leu Ala Gly Gln Glu Glu Glu Glu Ala Leu Glu Gly Leu 485 490 495		
Glu Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg 500 505 510		
Ala Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser 515 520 525		
Pro Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu		

530

535

540

Glu Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln
 545 550 555 560

Glu Gln Ala Asn Ser Thr
 565

<210> 1757

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (241)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (246)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1757

Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu
 1 5 10 15

Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu
 20 25 30

Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala
 35 40 45

Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp
 50 55 60

Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe
 65 70 75 80

Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro
 85 90 95

Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr
 100 105 110

Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu
 115 120 125

Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe
 130 135 140

His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val
 145 150 155 160

1117

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Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr
 165 170 175
 Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile
 180 185 190
 Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr
 195 200 205
 His Asp Pro Tyr Ala Lys Ala Ile Leu Asn Ser Ala Xaa Ser Tyr Phe
 210 215 220
 Thr Val Val Gln Leu Leu Tyr His Ser Asp Ile Phe Phe Lys Phe Ser
 225 230 235 240
 Xaa Gln Gly Tyr Arg Xaa Pro Glu Leu
 245

<210> 1758
 <211> 96
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1758
 Ala Gln Gly His Pro Trp Ser Val Arg Thr Gln Leu Pro Arg Ile Pro
 1 5 10 15

Arg Pro Ser Pro Met Thr Leu Gly Pro Gln Ile Leu Ile Cys His Ser
 20 25 30

Gly Ser Ala Ala Gly Ser Arg Asn Cys Ile Gly Gln Glu Phe Ala Met
 35 40 45

Ile Glu Leu Lys Val Thr Ile Ala Leu Ile Leu Leu His Phe Arg Val
 50 55 60

Thr Pro Asp Pro Thr Arg Pro Leu Thr Xaa Pro Asn His Phe Ile Leu
 1118

09033245.041201

65

70

75

80

Lys Pro Lys Asn Gly Met Tyr Xaa Xaa Leu Xaa Lys Leu Ser Glu Cys
85 90 95

<210> 1759

<211> 249

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (242)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1759

Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu
1 5 10 15

Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu
20 25 30

Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala
35 40 45

Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp
50 55 60

Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe
65 70 75 80

Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro
85 90 95

Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr
100 105 110

Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu
115 120 125

Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe
130 135 140

His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val
145 150 155 160

1119

[illegible]

Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr
 165 170 175
 Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile
 180 185 190
 Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr
 195 200 205
 His Asp Pro Tyr Ala Lys Ala Ile Phe Glu Leu Ser Lys Ile Ile Phe
 210 215 220
 His Arg Leu Tyr Ser Cys Cys Ile Thr Val Thr Tyr Phe Ser Asn Ser
 225 230 235 240
 Ala Xaa Arg Val Thr Val Xaa Xaa Ser
 245

<210> 1760
 <211> 509
 <212> PRT
 <213> Homo sapiens

<400> 1760
 Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu
 1 5 10 15
 Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu
 20 25 30
 Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala
 35 40 45
 Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp
 50 55 60
 Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe
 65 70 75 80
 Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro
 85 90 95
 Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr
 100 105 110
 Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu
 115 120 125
 Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe
 130 135 140
 His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val
 145 150 155 160
 Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr
 165 170 175

Ser	Val	Glu	Val	Tyr	Glu	His	Ile	Asn	Ser	Met	Ser	Leu	Asp	Ile	Ile	
			180					185								190
Met	Lys	Cys	Ala	Phe	Ser	Lys	Glu	Thr	Asn	Cys	Gln	Thr	Asn	Ser	Thr	
		195					200					205				
His	Asp	Pro	Tyr	Ala	Lys	Ala	Ile	Phe	Glu	Leu	Ser	Lys	Ile	Ile	Phe	
	210					215						220				
His	Arg	Leu	Tyr	Ser	Leu	Leu	Tyr	His	Ser	Asp	Ile	Ile	Phe	Lys	Leu	
225					230					235					240	
Ser	Pro	Gln	Gly	Tyr	Arg	Phe	Gln	Lys	Leu	Ser	Arg	Val	Leu	Asn	Gln	
				245					250					255		
Tyr	Thr	Asp	Thr	Ile	Ile	Gln	Glu	Arg	Lys	Lys	Ser	Leu	Gln	Ala	Gly	
			260					265					270			
Val	Lys	Gln	Asp	Asn	Thr	Pro	Lys	Arg	Lys	Tyr	Gln	Asp	Phe	Leu	Asp	
		275					280					285				
Ile	Val	Leu	Ser	Ala	Lys	Asp	Glu	Ser	Gly	Ser	Ser	Phe	Ser	Asp	Ile	
	290					295					300					
Asp	Val	His	Ser	Glu	Val	Ser	Thr	Phe	Leu	Leu	Ala	Gly	His	Asp	Thr	
305					310					315					320	
Leu	Ala	Ala	Ser	Ile	Ser	Trp	Ile	Leu	Tyr	Cys	Leu	Ala	Leu	Asn	Pro	
				325					330					335		
Glu	His	Gln	Glu	Arg	Cys	Arg	Glu	Glu	Val	Arg	Gly	Ile	Leu	Gly	Asp	
			340					345					350			
Gly	Ser	Ser	Ile	Thr	Trp	Asp	Gln	Leu	Gly	Glu	Met	Ser	Tyr	Thr	Thr	
		355					360					365				
Met	Cys	Ile	Lys	Glu	Thr	Cys	Arg	Leu	Ile	Pro	Ala	Val	Pro	Ser	Ile	
	370					375					380					
Ser	Arg	Asp	Leu	Ser	Lys	Pro	Leu	Thr	Phe	Pro	Asp	Gly	Cys	Thr	Leu	
385					390					395					400	
Pro	Ala	Gly	Ile	Thr	Val	Val	Leu	Ser	Ile	Trp	Gly	Leu	His	His	Asn	
				405					410					415		
Pro	Ala	Val	Trp	Lys	Asn	Pro	Lys	Val	Phe	Asp	Pro	Leu	Arg	Phe	Ser	
			420					425					430			
Gln	Glu	Asn	Ser	Asp	Gln	Arg	His	Pro	Tyr	Ala	Tyr	Leu	Pro	Phe	Ser	
		435					440					445				
Ala	Gly	Ser	Arg	Asn	Cys	Ile	Gly	Gln	Glu	Phe	Ala	Met	Ile	Glu	Leu	
	450					455					460					
Lys	Val	Thr	Ile	Ala	Leu	Ile	Leu	Leu	His	Phe	Arg	Val	Thr	Pro	Asp	
465					470					475					480	
Pro	Thr	Arg	Pro	Leu	Thr	Phe	Pro	Asn	His	Phe	Ile	Leu	Lys	Pro	Lys	
				485					490					495		

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	35.5	10.5	20	65
Gender	0.5	0.5	0	1
Marital Status	0.5	0.5	0	1
Education	12.5	1.5	10	16
Income	3000	1500	1000	6000
Health	0.5	0.5	0	1
Smoking	0.2	0.4	0	1
Drinking	0.1	0.3	0	1
Exercise	0.3	0.5	0	1
Stress	0.4	0.5	0	1
Sleep	0.5	0.5	0	1
Work	0.5	0.5	0	1
Family	0.5	0.5	0	1
Friends	0.5	0.5	0	1
Hobbies	0.5	0.5	0	1
Travel	0.5	0.5	0	1
Volunteering	0.5	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.5	0.5	0	1
Environment	0.5	0.5	0	1
Technology	0.5	0.5	0	1
Art	0.5	0.5	0	1
Music	0.5	0.5	0	1
Sports	0.5	0.5	0	1
Gardening	0.5	0.5	0	1
Cooking	0.5	0.5	0	1
Reading	0.5	0.5	0	1
Writing	0.5	0.5	0	1
Painting	0.5	0.5	0	1
Dancing	0.5	0.5	0	1
Fishing	0.5	0.5	0	1
Hiking	0.5	0.5	0	1
Cycling	0.5	0.5	0	1
Swimming	0.5	0.5	0	1
Boating	0.5	0.5	0	1
Shopping	0.5	0.5	0	1
Eating	0.5	0.5	0	1
Drinking	0.5	0.5	0	1
Smoking	0.5	0.5	0	1
Exercise	0.5	0.5	0	1
Stress	0.5	0.5	0	1
Sleep	0.5	0.5	0	1
Work	0.5	0.5	0	1
Family	0.5	0.5	0	1
Friends	0.5	0.5	0	1
Hobbies	0.5	0.5	0	1
Travel	0.5	0.5	0	1
Volunteering	0.5	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.5	0.5	0	1
Environment	0.5	0.5	0	1
Technology	0.5	0.5	0	1
Art	0.5	0.5	0	1
Music	0.5	0.5	0	1
Sports	0.5	0.5	0	1
Gardening	0.5	0.5	0	1
Cooking	0.5	0.5	0	1
Reading	0.5	0.5	0	1
Writing	0.5	0.5	0	1
Painting	0.5	0.5	0	1
Dancing	0.5	0.5	0	1
Fishing	0.5	0.5	0	1
Hiking	0.5	0.5	0	1
Cycling	0.5	0.5	0	1
Swimming	0.5	0.5	0	1
Boating	0.5	0.5	0	1
Shopping	0.5	0.5	0	1
Eating	0.5	0.5	0	1
Drinking	0.5	0.5	0	1
Smoking	0.5	0.5	0	1
Exercise	0.5	0.5	0	1
Stress	0.5	0.5	0	1
Sleep	0.5	0.5	0	1
Work	0.5	0.5	0	1
Family	0.5	0.5	0	1
Friends	0.5	0.5	0	1
Hobbies	0.5	0.5	0	1
Travel	0.5	0.5	0	1
Volunteering	0.5	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.5	0.5	0	1
Environment	0.5	0.5	0	1
Technology	0.5	0.5	0	1
Art	0.5	0.5	0	1
Music	0.5	0.5	0	1
Sports	0.5	0.5	0	1
Gardening	0.5	0.5	0	

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<400> 1761
Met Phe Lys Trp Val Arg Arg Thr Leu Ile Ala Leu Val Gln Val Thr
  1              5              10              15

Phe Gly Arg Thr Ile Asn Lys Gln Ile Arg Asp Thr Val Ser Trp Ile
          20              25              30

Phe Ser Glu Gln Met Leu Val Tyr Tyr Ile Asn Ile Phe Arg Asp Ala
      35              40              45

Phe Trp Pro Asn Gly Lys Leu Ala Pro Pro Thr Thr Ile Arg Ser Lys
  50              55              60

Glu Gln Ser Gln Glu Thr Lys Gln Arg Ala Gln Gln Lys Leu Leu Glu
  65              70              75              80

Asn Ile Pro Asp Met Leu Gln Ser Leu Val Gly Gln Gln Asn Ala Arg
      85              90              95

His Gly Ile Ile Lys Ile Phe Asn Ala Leu Gln Glu Thr Arg Ala Asn
          100              105              110

Lys His Leu Leu Tyr Ala Leu Met Glu Leu Leu Leu Ile Glu Leu Cys
      115              120              125

Pro Glu Leu Arg Val His Leu Asp Gln Leu Lys Ala Gly Gln Val
      130              135              140

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<400> 1762
Met Phe Lys Trp Val Arg Arg Thr Leu Ile Ala Leu Val Gln Val Thr
  1                      5                      10                      15

Phe Gly Arg Thr Ile Asn Lys Gln Ile Arg Asp Thr Val Ser Trp Ile
      20                      25                      30

Phe Ser Glu Gln Met Leu Val Tyr Tyr Ile Asn Ile Phe Arg Asp Ala
      35                      40                      45

Phe Trp Pro Asn Gly Lys Leu Ala Pro Pro Thr Thr Ile Arg Ser Lys
  50                      55                      60

Glu Gln Ser Gln Glu Thr Lys Gln Arg Ala Gln Gln Lys Leu Leu Glu
  65                      70                      75                      80

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Asn Ile Pro Asp Met Leu Gln Ser Leu Val Gly Gln Gln Asn Ala Arg
85 90 95

His Gly Ile Ile Lys Ile Phe Asn Ala Leu Gln Glu Thr Arg Ala Asn
100 105 110

Lys His Leu Leu Tyr Ala Leu Met Glu Leu Leu Leu Ile Glu Leu Cys
115 120 125

Pro Glu Leu Arg Val His Leu Asp Gln Leu Lys Ala Gly Gln Val
130 135 140

<210> 1763

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1763

Met Lys Ser Leu Ile Lys Thr Tyr Phe Leu Leu Trp Thr Leu Lys Lys
1 5 10 15

Leu Leu Pro Leu Ser Thr Leu Ile Pro Ile Met Leu Ser Pro Leu Asp
20 25 30

Ile Phe Phe Ser Asp Asn Pro His Ile Asp Cys Ser Gly His His Phe
35 40 45

Val Pro Tyr Leu Leu Ile Gly Leu Asp Thr Asp Pro Gln Phe Thr Cys
50 55 60

Leu Tyr Leu Leu Ile Leu Thr Leu Leu Val Phe Val Phe Ser Leu Thr
65 70 75 80

Leu Leu Ser Pro Pro Ser Pro Gly
85

<210> 1764

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1764

Met Lys Ser Leu Ile Lys Thr Tyr Phe Leu Leu Trp Thr Leu Lys Lys
1 5 10 15

Leu Leu Pro Leu Ser Thr Leu Ile Pro Ile Met Leu Ser Pro Leu Asp
20 25 30

Ile Phe Phe Ser Asp Asn Pro His Ile Asp Cys Ser Gly His His Phe
35 40 45

Val Pro Tyr Leu Leu Ile Gly Leu Asp Thr Asp Pro Gln Phe Thr Cys
50 55 60

Leu Tyr Leu Leu Ile Leu Thr Leu Leu Val Phe Val Phe Ser Leu Thr
1123

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Leu Leu Ser Pro Pro Ser Pro Gly
85

<210> 1765

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (199)

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<220>

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<222> (208)

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<220>

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<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1765

Met Ala Leu Ser Ser Leu Ile Val Ile Leu Leu Val Val Phe Ala Leu
1 5 10 15

Val Leu His Gly Gln Asn Lys Lys Tyr Lys Asn Cys Ser Thr Gly Lys
20 25 30

Gly Ile Ser Thr Met Glu Glu Ser Val Thr Leu Asp Asn Gly Gly Phe
35 40 45

Ala Ala Leu Glu Leu Ser Ser Arg His Leu Asn Val Lys Ser Thr Phe
50 55 60

Ser Lys Lys Asn Gly Thr Arg Ser Pro Pro Arg Pro Ser Pro Gly Gly
65 70 75 80

Leu His Tyr Ser Asp Glu Asp Ile Cys Asn Lys Tyr Asn Gly Ala Val
85 90 95

Leu Thr Glu Ser Val Ser Leu Lys Glu Lys Ser Ala Asp Ala Ser Glu
100 105 110

Ser Glu Ala Thr Asp Ser Asp Tyr Glu Asp Ala Leu Pro Lys His Ser
115 120 125

Phe Val Asn His Tyr Met Ser Asp Pro Thr Tyr Tyr Asn Ser Trp Lys
130 135 140

Arg Xaa Ala Gln Gly Pro Arg Thr Cys Ala Ala Gln Val Arg Gly Gly
145 150 155 160

Gly Gly Leu Arg Gly Gly Arg Ala Ala Ala Pro Gly His His His Ala
165 170 175

Xaa Arg Gly Arg Arg Leu His Pro Arg Trp Pro Arg Arg Ala Asn Phe
180 185 190

Xaa Tyr Arg Leu Leu Leu Xaa Arg Val Ser Lys Ser Ala Ala Leu Xaa
195 200 205

Gln Gly Gly Thr Glu Ala Thr Phe Arg Ser Leu Phe Leu Xaa Arg Gln
210 215 220

Phe Asn Ser Asn Lys Leu Xaa
225 230

<210> 1766

<211> 127

<212> PRT

<213> Homo sapiens

<400> 1766

Glu Gly Phe Phe Lys Arg Leu Phe Val Thr Ser Leu Gln Glu Ala Gly
1 5 10 15

Leu Phe Leu Phe Leu Phe Phe Leu Arg Glu Gly Val Phe His Trp Cys
20 25 30

Asn Gly Leu Ala Pro Pro Gly Pro Gly Arg Thr Ser Asp Leu Pro Ser
35 40 45

Pro Gly Phe Leu Arg Leu Gln Asp Gln Leu Gly Arg Val Lys Arg Gly
50 55 60

Glu Gly Val Glu Gly Gln Val Arg Ser Gln Ser Cys Pro Gly Arg Pro
65 70 75 80

Pro Ser Leu Ser Thr Ser Ser Ser Arg Glu Pro Ala Ala His Thr Leu
85 90 95

Leu Asn Ala Gly His Pro Arg Arg Leu Leu Gly Phe Glu Glu Gln Thr
1125

Glu Arg Gly Arg Arg Leu His Pro Arg Trp Pro Arg Arg Ala Asn Xaa
180 185 190

Ala His Arg Leu Leu Leu Leu Arg Val Ser Lys Ala Pro Arg Leu Pro
195 200 205

Gln Gly Gly Thr Glu Ala Thr Phe Arg Ser Leu Phe Leu Xaa Arg Gln
210 215 220

Ser Thr Pro Ile Thr Glu Leu Lys Phe Leu Xaa Lys Lys Lys Lys Ile
225 230 235 240

<210> 1768
<211> 96
<212> PRT
<213> Homo sapiens

<400> 1768
Met Tyr Leu Pro Cys Gln Met Ala Cys Ser Leu Phe Val Leu Phe Val
1 5 10 15

Ile Trp Leu Leu Leu Lys Ile Phe Gln Ala Gly Pro Gln Leu Met Ser
20 25 30

Leu Ala His Gly Ser Ala Thr Leu Val Leu Asp Gly Met Asn Ile Phe
35 40 45

Gly Pro Ser Gly Tyr Gly Gln Glu Cys Arg Val Ala Cys Asn Tyr Phe
50 55 60

Arg Lys Cys Arg Val Pro Ser Trp Ala Arg Cys Leu Met Pro Val Ile
65 70 75 80

Pro Ala Leu Trp Glu Ala Glu Ala Ala Asp Gln Leu Arg Leu Gly Val
85 90 95

<210> 1769
<211> 57
<212> PRT
<213> Homo sapiens

<400> 1769
Leu Tyr Gln Glu Lys Pro Leu Met Trp Pro Arg Thr Ser Leu Leu Tyr
1 5 10 15

Val Val Pro Arg Trp Leu Leu Pro Cys Ser Ser Leu Pro Cys Pro Leu
20 25 30

Pro Glu Ile Lys Asn Ser Leu Thr Glu Lys Lys Lys Lys Lys Lys Lys

35

40

45

Asn Lys Lys Lys Lys Lys Gly Arg Pro
50 55

<210> 1770

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1770

Met Tyr Leu Pro Cys Gln Met Ala Cys Ser Leu Phe Val Leu Phe Val
1 5 10 15

Ile Trp Leu Leu Leu Lys Ile Phe Gln Ala Gly Pro Gln Leu Met Ser
20 25 30

Leu Ala His Gly Ser Ala Thr Leu Val Leu Asp Gly Met Asn Ile Phe
35 40 45

Gly Pro Ser Gly Tyr Gly Gln Glu Cys Arg Val Ala Cys Asn Tyr Phe
50 55 60

Arg Lys Cys Arg Val Pro Ser Trp Ala Arg Cys Leu Met Pro Val Ile
65 70 75 80

Pro Ala Leu Trp Glu Ala Glu Ala Gly Arg Ser Ala Glu Val Arg Ser
85 90 95

Leu Arg Pro Ala Trp Pro Thr Trp
100

<210> 1771

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (206)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1771
 Met Ala Asn Phe Lys Gly His Ala Leu Pro Gly Ser Phe Phe Leu Ile
 1 5 10 15
 Ile Gly Leu Cys Trp Ser Val Lys Tyr Pro Leu Lys Tyr Phe Ser His
 20 25 30
 Thr Arg Lys Asn Ser Pro Leu His Tyr Tyr Gln Arg Leu Glu Ile Val
 35 40 45
 Glu Ala Ala Ile Arg Thr Leu Phe Ser Val Thr Val Ser Gly Ile Val
 50 55 60
 Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val Asp Arg
 65 70 75 80
 Leu Val Met Ala Val Ala Val Phe Met Glu Gly Phe Leu Phe Tyr Tyr
 85 90 95
 His Val His Asn Arg Pro Pro Leu Asp Gln His Ile His Ser Leu Leu
 100 105 110
 Leu Tyr Ala Leu Phe Gly Gly Cys Val Ser Ile Ser Leu Glu Val Ile
 115 120 125
 Phe Arg Asp His Ile Val Leu Glu Leu Phe Arg Thr Ser Leu Ile Ile
 130 135 140
 Leu Gln Gly Thr Trp Phe Trp Gln Ile Gly Phe Val Leu Phe Pro Pro
 145 150 155 160
 Phe Gly Thr Pro Glu Trp Asp Gln Lys Asp Asp Ala Asn Leu Met Xaa
 165 170 175
 Ile Thr Met Xaa Phe Cys Cys Thr Thr Trp Leu Xaa Xaa Thr Leu Trp
 180 185 190
 Pro Gln Leu Phe Ser Xaa Tyr Xaa Leu Phe Asp Ser Asp Xaa
 195 200 205

<210> 1772
 <211> 275

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<212> PRT
<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1772

Met Ala Asn Phe Lys Gly His Ala Leu Pro Gly Ser Phe Phe Leu Ile
1 5 10 15

Ile Gly Leu Cys Trp Ser Val Lys Tyr Pro Leu Lys Tyr Phe Ser His
20 25 30

Thr Arg Lys Asn Ser Pro Leu His Tyr Tyr Gln Arg Leu Glu Ile Val
35 40 45

Glu Ala Ala Ile Arg Thr Leu Phe Ser Val Xaa Gly Ile Leu Ala Glu
50 55 60

Gln Phe Val Pro Asp Gly Pro His Leu His Leu Tyr His Glu Asn His
65 70 75 80

Trp Ile Lys Leu Met Asn Trp Gln His Ser Thr Met Tyr Leu Phe Phe
85 90 95

Ala Val Ser Gly Ile Val Asp Met Leu Thr Tyr Leu Val Ser His Val
100 105 110

Pro Leu Gly Val Asp Arg Leu Val Met Ala Val Ala Val Phe Met Glu
115 120 125

Gly Phe Leu Phe Tyr Tyr His Val His Asn Arg Pro Pro Leu Asp Gln
130 135 140

His Ile His Ser Leu Leu Leu Tyr Ala Leu Phe Gly Gly Cys Val Ser
145 150 155 160

Ile Ser Leu Glu Val Ile Phe Arg Asp His Ile Val Leu Glu Leu Phe
165 170 175

Arg Thr Ser Leu Ile Ile Leu Gln Gly Thr Trp Phe Trp Gln Ile Gly
180 185 190

Phe Val Leu Phe Pro Pro Phe Gly Thr Pro Glu Trp Asp Gln Lys Asp
195 200 205

Asp Ala Asn Leu Met Phe Ile Thr Met Cys Phe Cys Trp His Tyr Leu
210 215 220

Ala Ala Leu Ser Ile Val Ala Val Asn Tyr Ser Leu Val Tyr Cys Leu
225 230 235 240

Leu Thr Arg Met Lys Arg His Gly Arg Gly Glu Ile Ile Gly Ile Gln
245 250 255

Lys Leu Asn Ser Asp Asp Thr Tyr Gln Thr Ala Leu Leu Ser Gly Ser
260 265 270

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FOETHO"SH2EE60

<212> PRT
<213> Homo sapiens

<400> 1774
Met His Gly Met His Ala Ala Gly Thr Gly Thr Glu Leu Thr Leu Ser
1 5 10 15
Gly Cys Gln Pro Leu Ser Thr Leu Leu Leu Leu Leu Tyr Tyr Cys
20 25 30
Pro Ser Phe Val His Ser Ile Asn Met Cys Lys Ala Ala Ala Leu Ser
35 40 45
Leu Pro Trp Ala Ala Gly Gln His Arg Gly Gly Leu Ser Gly Gly Ala
50 55 60
Gly Glu Arg Met Ala
65

<210> 1775
<211> 69
<212> PRT
<213> Homo sapiens

<400> 1775
Met His Gly Met His Ala Ala Gly Thr Gly Thr Glu Leu Thr Leu Ser
1 5 10 15
Gly Cys Gln Pro Leu Ser Thr Leu Leu Leu Leu Leu Tyr Tyr Cys
20 25 30
Pro Ser Phe Val His Ser Ile Asn Met Cys Lys Ala Ala Ala Leu Ser
35 40 45
Leu Pro Trp Ala Ala Gly Gln His Arg Gly Gly Leu Ser Gly Gly Ala
50 55 60
Gly Glu Arg Met Ala
65

<210> 1776
<211> 222
<212> PRT
<213> Homo sapiens

<400> 1776
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
1 5 10 15
Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
20 25 30
Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
35 40 45
Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly

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50

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60

Leu Val Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser
65 70 75 80

Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg
85 90 95

Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys
100 105 110

Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro
115 120 125

Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser Glu Asp
130 135 140

Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn Ser Arg
145 150 155 160

Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met Val Gln
165 170 175

Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys Ile Thr
180 185 190

Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys Lys Gln
195 200 205

Glu Arg Ile Lys Glu Tyr Glu Met Leu Lys Lys Lys Lys Lys
210 215 220

<210> 1777

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1777

Ile Leu Lys Val Leu Lys Val Trp Ser Phe Gln Leu Phe Gln Ile Ala
1 5 10 15

Val Cys Asp Phe Ser His Phe Tyr Leu Leu Arg Asn Ile His Lys Ile
20 25 30

Ile Pro Lys Met Lys Val His Phe Leu Phe Ser Pro Arg Leu Glu Arg
35 40 45

Gly Gly Leu Gly Cys Phe Met Arg Asn Val Phe Leu Asp Leu Arg Trp

1133

50

55

60

Ser Gly Leu Pro Leu Leu Xaa Phe Pro Ala Phe Pro Pro His His Thr
65 70 75 80

Ala Ser Leu Gly Phe Leu Pro Val Ser Gln Asn Tyr Thr His Asp His
85 90 95

Pro Asn Ile Gly Ser Met Pro Xaa Leu
100 105

<210> 1778

<211> 489

<212> PRT

<213> Homo sapiens

<400> 1778

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
1 5 10 15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
20 25 30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
35 40 45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly
50 55 60

Leu Val Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser
65 70 75 80

Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg
85 90 95

Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys
100 105 110

Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro
115 120 125

Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser Glu Asp
130 135 140

Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn Ser Arg
145 150 155 160

Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met Val Gln
165 170 175

Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys Ile Thr
180 185 190

Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys Lys Gln
195 200 205

Glu Arg Ile Lys Glu Tyr Glu Met Leu Phe Leu Val Ser Asn Glu Glu
210 215 220

1134

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Met His Lys Gln Ile Leu Met Thr Ile Gly Leu Glu Asn Leu Cys Glu
 225 230 235 240

Asn Pro Tyr Phe Ser Asn Leu Arg Gln Asn Met Lys Asp Leu Ile Leu
 245 250 255

Leu Leu Ala Thr Val Ala Ser Ser Val Pro Asn Phe Lys His Phe Gly
 260 265 270

Phe Tyr Arg Ser Asn Pro Glu Gln Ile Asn Glu Ile His Asn Gln Ser
 275 280 285

Leu Pro Gln Glu Ile Ala Arg His Cys Met Val Gln Ala Arg Leu Leu
 290 295 300

Ala Tyr Arg Thr Glu Asp His Lys Thr Gly Val Gly Ala Val Ile Trp
 305 310 315 320

Ala Glu Gly Lys Ser Arg Ser Cys Asp Gly Thr Gly Ala Met Tyr Phe
 325 330 335

Val Gly Cys Gly Tyr Asn Ala Phe Pro Val Gly Ser Glu Tyr Ala Asp
 340 345 350

Phe Pro His Met Asp Asp Lys Gln Lys Asp Arg Glu Ile Arg Lys Phe
 355 360 365

Arg Tyr Ile Ile His Ala Glu Gln Asn Ala Leu Thr Phe Arg Cys Gln
 370 375 380

Glu Ile Lys Pro Glu Glu Arg Ser Met Ile Phe Val Thr Lys Cys Pro
 385 390 395 400

Cys Asp Glu Cys Val Pro Leu Ile Lys Gly Ala Gly Ile Lys Gln Ile
 405 410 415

Tyr Ala Gly Asp Val Asp Val Gly Lys Lys Lys Ala Asp Ile Ser Tyr
 420 425 430

Met Arg Phe Gly Glu Leu Glu Gly Val Ser Lys Phe Thr Trp Gln Leu
 435 440 445

Asn Pro Ser Gly Ala Tyr Gly Leu Glu Gln Asn Glu Pro Glu Arg Arg
 450 455 460

Glu Asn Gly Val Leu Arg Pro Val Pro Gln Lys Glu Glu Gln His Gln
 465 470 475 480

Asp Lys Lys Leu Arg Leu Gly Ile His
 485

<210> 1779

<211> 267

<212> PRT

<213> Homo sapiens

<400> 1779

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
1 5 10 15
Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
20 25 30
Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
35 40 45
Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly
50 55 60
Leu Val Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser
65 70 75 80
Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg
85 90 95
Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys
100 105 110
Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro
115 120 125
Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser Glu Asp
130 135 140
Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn Ser Arg
145 150 155 160
Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met Val Gln
165 170 175
Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys Ile Thr
180 185 190
Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys Lys Gln
195 200 205
Glu Arg Ile Lys Glu Tyr Glu Met Leu Phe Leu Val Ser Asn Glu Glu
210 215 220
Met His Lys Gln Ile Leu Met Thr Ile Gly Leu Glu Asn Leu Cys Glu
225 230 235 240
Asn Pro Tyr Phe Ser Asn Leu Arg Gln Asn Met Lys Asp Leu Ile Leu
245 250 255
Leu Leu Ala Thr Val Ala Ser Met Cys Arg Leu
260 265

<210> 1780

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (169)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (174)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (179)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (191)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1780
 Met Tyr Leu Leu Glu Gln Ile Asp Met His Gly Phe Gly Gly Thr Ala
 1 5 10 15
 Ala Thr Ser Pro Leu Thr Ala Val Phe Ser Leu Ser Arg Ser Leu Leu
 20 25 30
 Ala Ala Ala Leu Leu Tyr Gly Phe Cys Leu Gly Ala Ile Lys Thr Pro
 35 40 45
 Trp Pro Glu Gln His Val Pro Val Leu Phe Ser Val Phe Cys Gly Leu
 50 55 60
 Leu Val Ala Leu Ser Tyr His Leu Ser Arg Gln Ser Ser Asp Pro Thr
 65 70 75 80
 Val Leu Trp Ser Leu Ile Arg Ser Lys Leu Phe Pro Glu Leu Glu Glu
 85 90 95
 Arg Ser Leu Glu Thr Ala Arg Ala Glu Pro Pro Asp Pro Leu Pro Asp
 100 105 110
 Lys Met Arg Gln Ser Val Arg Glu Val Leu His Ser Asp Leu Val Met
 115 120 125
 Cys Val Val Ile Ala Val Leu Thr Phe Ala Ile Ser Ala Ser Thr Val
 130 135 140

Trp	Pro	Glu	Gln	His	Val	Pro	Val	Leu	Phe	Ser	Val	Phe	Cys	Gly	Leu	50	55	60	
Leu	Val	Ala	Leu	Ser	Tyr	His	Leu	Ser	Arg	Gln	Ser	Ser	Asp	Pro	Thr	65	70	75	80
Val	Leu	Trp	Ser	Leu	Ile	Arg	Ser	Lys	Leu	Phe	Pro	Glu	Leu	Glu	Glu	85	90	95	
Arg	Ser	Leu	Glu	Thr	Ala	Arg	Ala	Glu	Pro	Pro	Asp	Pro	Leu	Pro	Asp	100	105	110	
Lys	Met	Arg	Gln	Ser	Val	Arg	Glu	Val	Leu	His	Ser	Asp	Leu	Val	Met	115	120	125	
Cys	Val	Val	Ile	Ala	Val	Leu	Thr	Phe	Ala	Ile	Ser	Ala	Ser	Thr	Val	130	135	140	
Phe	Ile	Ala	Leu	Lys	Ser	Val	Leu	Gly	Phe	Val	Leu	Tyr	Ala	Leu	Ala	145	150	155	160
Gly	Ala	Val	Gly	Phe	Phe	Thr	His	Tyr	Leu	Leu	Pro	Gln	Leu	Arg	Lys	165	170	175	
Gln	Leu	Pro	Trp	Phe	Cys	Leu	Ser	Gln	Pro	Val	Leu	Lys	Pro	Leu	Glu	180	185	190	
Tyr	Ser	Gln	Tyr	Glu	Val	Arg	Gly	Ala	Ala	Gln	Val	Met	Trp	Phe	Glu	195	200	205	
Lys	Leu	Tyr	Ala	Gly	Leu	Gln	Cys	Val	Glu	Lys	Tyr	Leu	Ile	Tyr	Pro	210	215	220	
Ala	Val	Val	Leu	Asn	Ala	Leu	Thr	Val	Asp	Ala	His	Thr	Val	Val	Ser	225	230	235	240
His	Pro	Asp	Lys	Tyr	Cys	Phe	Tyr	Cys	Arg	Ala	Leu	Leu	Met	Thr	Val	245	250	255	
Ala	Gly	Leu	Lys	Leu	Leu	Arg	Ser	Ala	Phe	Cys	Cys	Pro	Pro	Gln	Gln	260	265	270	
Tyr	Leu	Thr	Leu	Ala	Phe	Thr	Val	Leu	Leu	Phe	His	Phe	Asp	Tyr	Pro	275	280	285	
Arg	Leu	Ser	Gln	Gly	Phe	Leu	Leu	Asp	Tyr	Phe	Leu	Met	Ser	Leu	Leu	290	295	300	
Cys	Ser	Lys	Leu	Trp	Asp	Leu	Leu	Tyr	Lys	Leu	Arg	Phe	Val	Leu	Thr	305	310	315	320
Tyr	Ile	Ala	Pro	Trp	Gln	Ile	Thr	Trp	Gly	Ser	Ala	Phe	His	Ala	Phe	325	330	335	
Ala	Gln	Pro	Phe	Ala	Val	Pro	His	Ser	Ala	Met	Leu	Phe	Val	Gln	Ala	340	345	350	
Leu	Leu	Ser	Gly	Leu	Phe	Ser	Thr	Pro	Leu	Asn	Pro	Leu	Leu	Gly	Ser	355	360	365	

Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu
 1 5 10 15
 Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser
 20 25 30
 Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile
 35 40 45
 His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala
 50 55 60
 Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln
 65 70 75 80
 His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp
 85 90 95
 Leu Phe Thr Ala His Asn Phe Ser Glu Gln Ser Arg Ile Gly Ser Ser
 100 105 110
 Glu Leu Gln Glu Phe Cys Pro Thr Ile Leu Gln Gln Leu Asp Ser Arg
 115 120 125
 Ala Cys Thr Ser Glu Asn Gln Glu Asn Glu Glu Asn Glu Gln Thr Glu
 130 135 140
 Xaa Gly Arg Pro Ser Ala Val Glu Val Trp Gly Tyr Gly Leu Leu Cys
 145 150 155 160
 Val Thr Val Ser Pro Ser Ala Pro Ser Trp Gly Pro Ala Trp Xaa Pro
 165 170 175

Ser

<210> 1784
 <211> 492
 <212> PRT
 <213> Homo. sapiens

<400> 1784
 Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu
 1 5 10 15
 Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser
 20 25 30
 Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile
 35 40 45
 His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala
 50 55 60
 Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln
 65 70 75 80
 His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp

				85						90				95			
Leu	Phe	Thr	Ala	His	Asn	Phe	Ser	Glu	Gln	Ser	Arg	Ile	Gly	Ser	Ser		
			100					105					110				
Glu	Leu	Gln	Glu	Phe	Cys	Pro	Thr	Ile	Leu	Gln	Gln	Leu	Asp	Ser	Arg		
		115					120					125					
Ala	Cys	Thr	Ser	Glu	Asn	Gln	Glu	Asn	Glu	Glu	Asn	Glu	Gln	Thr	Glu		
	130					135					140						
Glu	Gly	Arg	Pro	Ser	Ala	Val	Glu	Val	Trp	Gly	Tyr	Gly	Leu	Leu	Cys		
145					150					155					160		
Val	Thr	Val	Ile	Ser	Leu	Cys	Ser	Leu	Leu	Gly	Ala	Ser	Val	Val	Pro		
				165					170					175			
Phe	Met	Lys	Lys	Thr	Phe	Tyr	Lys	Arg	Leu	Leu	Leu	Tyr	Phe	Ile	Ala		
			180					185					190				
Leu	Ala	Ile	Gly	Thr	Leu	Tyr	Ser	Asn	Ala	Leu	Phe	Gln	Leu	Ile	Pro		
		195					200					205					
Glu	Ala	Phe	Gly	Phe	Asn	Pro	Leu	Glu	Asp	Tyr	Tyr	Val	Ser	Lys	Ser		
	210					215					220						
Ala	Val	Val	Phe	Gly	Gly	Phe	Tyr	Leu	Phe	Phe	Phe	Thr	Glu	Lys	Ile		
225					230					235					240		
Leu	Lys	Ile	Leu	Leu	Lys	Gln	Lys	Asn	Glu	His	His	His	Gly	His	Ser		
			245						250					255			
His	Tyr	Ala	Ser	Glu	Ser	Leu	Pro	Ser	Lys	Lys	Asp	Gln	Glu	Glu	Gly		
			260					265					270				
Val	Met	Glu	Lys	Leu	Gln	Asn	Gly	Asp	Leu	Asp	His	Met	Ile	Pro	Gln		
		275					280					285					
His	Cys	Ser	Ser	Glu	Leu	Asp	Gly	Lys	Ala	Pro	Met	Val	Asp	Glu	Lys		
	290					295					300						
Val	Ile	Val	Gly	Ser	Leu	Ser	Val	Gln	Asp	Leu	Gln	Ala	Ser	Gln	Ser		
305					310					315					320		
Ala	Cys	Tyr	Trp	Leu	Lys	Gly	Val	Arg	Tyr	Ser	Asp	Ile	Gly	Thr	Leu		
				325					330					335			
Ala	Trp	Met	Ile	Thr	Leu	Ser	Asp	Gly	Leu	His	Asn	Phe	Ile	Asp	Gly		
			340					345					350				
Leu	Ala	Ile	Gly	Ala	Ser	Phe	Thr	Val	Ser	Val	Phe	Gln	Gly	Ile	Ser		
		355					360					365					
Thr	Ser	Val	Ala	Ile	Leu	Cys	Glu	Glu	Phe	Pro	His	Glu	Leu	Gly	Asp		
		370				375					380						
Phe	Val	Ile	Leu	Leu	Asn	Ala	Gly	Met	Ser	Ile	Gln	Gln	Ala	Leu	Phe		
385					390					395					400		
Phe	Asn	Phe	Leu	Ser	Ala	Cys	Cys	Cys	Tyr	Leu	Gly	Leu	Ala	Phe	Gly		

405 410 415
 Ile Leu Ala Gly Ser His Phe Ser Ala Asn Trp Ile Phe Ala Leu Ala
 420 425 430
 Gly Gly Met Phe Leu Tyr Ile Ser Leu Ala Asp Met Phe Pro Glu Met
 435 440 445
 Asn Glu Val Cys Gln Glu Asp Glu Arg Lys Gly Ser Ile Leu Ile Pro
 450 455 460
 Phe Ile Ile Gln Asn Leu Gly Leu Leu Thr Gly Phe Thr Ile Met Val
 465 470 475 480
 Val Leu Thr Met Tyr Ser Gly Gln Ile Gln Ile Gly
 485 490

<210> 1785
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 1785
 Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys
 1 5 10 15
 Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
 20 25 30
 Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
 35 40 45
 Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
 50 55 60
 Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
 65 70 75 80
 Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
 85 90 95
 Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
 100 105 110
 Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
 115 120 125
 Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
 130 135 140
 Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
 145 150 155 160
 Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
 165 170 175
 Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
 180 185 190

Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln
20 25 30
Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser
35 40 45
Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala
50 55 60
Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg
65 70 75 80
Thr

<210> 1791
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1791
Met Ala Leu Ala Arg Pro Gly Thr Pro Asp Pro Gln Ala Leu Ala Ser
1 5 10 15
Val Leu Leu Leu Leu Leu Trp Ala Pro Ala Leu Ser Leu Leu Ala Gly
20 25 30
Thr Val Pro Ser Glu Pro Pro Ser Ala Cys Ala Ser Asp Pro Cys Ala
35 40 45
Pro Gly Thr Glu Cys Gln Ala Thr Glu Ser Gly Gly Tyr Thr Cys Gly
50 55 60
Pro Met Glu Pro Arg Gly Cys Ala Thr Gln Xaa Cys His His Gly Ala
65 70 75 80
Leu Cys Val Pro Gln Gly Pro Asp Pro Asn Gly Phe Arg Cys Tyr Cys
85 90 95
Val Pro Gly Phe Gln Gly Pro Arg Cys Glu Leu Asp Ile Asp Glu Cys
100 105 110
Ala Ser Arg Pro Cys His His Gly Ala Thr Leu Pro Xaa Pro Gly Arg
115 120 125
Ser Leu Arg Val Pro Leu Pro Leu Gly Tyr Ala Ala Pro His Leu Asn
130 135 140

Arg Gly Ser Leu

<210> 1796

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1796

Met Gly Ser Gly Cys Pro Ala Gln Pro Thr Leu Ser Pro Trp Gly Ile
1 5 10 15

Leu Ser Arg Leu Leu Gly Val Leu Ala Gly Thr Ser Cys Gly Val Ser
20 25 30

Thr Pro Ala Ala Ala Gln Gly Gly Pro Glu Ile Gly Cys Arg Ala Pro
35 40 45

His Leu His Leu Ser Gly His Ala Pro Leu Ala Cys Pro Cys Ser Phe
50 55 60

Leu Pro Thr Ser Leu Gly Gly Val Cys Val Ser Ala Pro Ala Pro Ala
65 70 75 80

Leu Leu Ser Trp Gly Thr Leu Pro Ala Ile Trp Tyr Trp Gly Cys Pro
85 90 95

His Cys Leu Val Leu Gly Pro Gly Pro Ala His Ser Gly Leu Ala Leu
100 105 110

Leu Val Cys Ser
115

<210> 1797

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1797

Gly Pro Trp Pro Leu Cys Lys Ala Gln Arg Cys Ala Pro Asp Gln Pro
1 5 10 15

Ser Gly Leu Pro Trp Ala Arg Leu Gly Val Arg Val Ala His Trp Gly
20 25 30

Gly Gly Gly Leu Ala Arg His Ser Thr Leu Ala Gly Gly Pro Ser Gln
35 40 45

Arg Glu Pro Cys Arg Leu Arg Trp Ser Trp Pro Leu Ala Gly Cys Pro
50 55 60

Gly Ser Ala Pro Pro Leu Gln Gly Pro Ser Arg Asn Leu Leu Leu Asn
65 70 75 80

Gly Lys Ser Tyr Pro Thr Lys Val Arg Leu Ile Arg Gly Gly Ser Leu
1150

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85

90

95

Pro Pro Val Lys Arg Arg Arg Met Asn Trp Ile Asp Ala Pro Asp Asp
 100 105 110
 Val Phe Tyr Met Ala Thr Glu Glu Thr Arg Lys Ile Arg Lys Leu Leu
 115 120 125
 Ser Ser Ser Glu Thr Lys Arg Ala Ala Arg Arg Pro Tyr Lys Pro Ile
 130 135 140
 Ala Leu Arg Gln Ser Gln Ala Leu Pro Pro Arg Pro Pro Pro Pro Ala
 145 150 155 160
 Pro Val Asn Asp Glu Pro Ile Val Ile Glu Asp
 165 170

<210> 1798

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1798

Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe
 1 5 10 15
 Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu
 20 25 30
 Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp
 35 40 45
 Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe
 50 55 60
 Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly
 65 70 75 80
 Gln

<210> 1799

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1799

Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe
 1 5 10 15
 Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu
 20 25 30
 Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp
 35 40 45

115	120	125
Ser Gly Met Phe Lys Lys Glu Ser Asp Ser Ile Ile		
130	135	140
<210> 1803		
<211> 234		
<212> PRT		
<213> Homo sapiens		
<400> 1803		
Pro Thr Arg Pro Pro Thr Arg Pro Val Arg Val Ser Val Gly Gly Leu		
1	5	10 15
Val Gly Glu Val Ala Cys Ala Cys Arg Asp Cys Ile Pro Glu Thr Met		
	20	25 30
Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr Ala		
	35	40 45
Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met Ala		
	50	55 60
Asp Lys Val Leu Arg Trp Glu Arg Ala Trp Phe Pro Pro Ala Ile Met		
	65	70 75 80
Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro Ser		
	85	90 95
Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala Asp		
	100	105 110
Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys Trp		
	115	120 125
Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu Val		
	130	135 140
Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr Leu		
	145	150 155 160
Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser Leu		
	165	170 175
Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu Thr		
	180	185 190
Tyr Leu Ile Val Thr Ser Leu Leu Leu Leu Pro Gly Leu Asn Gln His		
	195	200 205
Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn Lys		
	210	215 220
Leu Leu Lys Gln Lys Glu Lys Lys Asn Glu		
	225	230

Ile	Phe	Phe	Tyr	Leu	Val	Asp	Ala	Glu	Gln	Gly	Arg	Leu	Cys	Gly	Tyr		
				165						170					175		
Arg	Leu	Arg	Lys	Asp	Leu	Thr	Thr	Glu	Leu	Ser	Trp	Glu	Leu	Thr	Ile		
			180						185					190			
Pro	Pro	Glu	Val	Gln	Arg	Ile	Val	Lys	Val	Lys	Gly	Lys	Arg	Ser	Ser		
		195					200					205					
Glu	His	Val	His	Ser	Gln	Gly	Arg	Val	Met	Gly	Asp	Arg	Ser	Val	Leu		
	210					215					220						
Tyr	Lys	Ser	Leu	Asn	Pro	Asn	Leu	Leu	Ala	Val	Val	Thr	Glu	Ser	Thr		
	225				230					235					240		
Asp	Ala	His	His	Glu	Arg	Thr	Phe	Ile	Gly	Ile	Phe	Leu	Ile	Asp	Gly		
				245					250					255			
Val	Thr	Gly	Arg	Ile	Ile	His	Ser	Ser	Val	Gln	Lys	Lys	Ala	Lys	Gly		
			260					265						270			
Pro	Val	His	Ile	Val	His	Ser	Glu	Asn	Trp	Val	Val	Tyr	Gln	Tyr	Trp		
		275					280					285					
Asn	Thr	Lys	Ala	Arg	Arg	Asn	Glu	Phe	Thr	Val	Leu	Glu	Leu	Tyr	Glu		
	290					295					300						
Gly	Thr	Glu	Gln	Tyr	Asn	Ala	Thr	Ala	Phe	Ser	Ser	Leu	Asp	Arg	Pro		
	305				310					315					320		
Gln	Leu	Pro	Gln	Val	Leu	Gln	Gln	Ser	Tyr	Ile	Phe	Pro	Ser	Ser	Ile		
				325					330					335			
Ser	Ala	Met	Glu	Ala	Thr	Ile	Thr	Glu	Arg	Gly	Ile	Thr	Ser	Arg	His		
			340					345					350				
Leu	Leu	Ile	Gly	Leu	Pro	Ser	Gly	Ala	Ile	Leu	Ser	Leu	Pro	Lys	Ala		
		355					360					365					
Leu	Leu	Asp	Pro	Arg	Arg	Pro	Glu	Ile	Pro	Thr	Glu	Gln	Ser	Arg	Glu		
		370				375					380						
Glu	Asn	Leu	Ile	Pro	Tyr	Ser	Pro	Asp	Val	Gln	Ile	His	Ala	Glu	Arg		
	385				390					395					400		
Phe	Ile	Asn	Tyr	Asn	Gln	Thr	Val	Ser	Arg	Met	Arg	Gly	Ile	Tyr	Thr		
				405					410					415			
Ala	Pro	Ser	Gly	Leu	Glu	Ser	Thr	Cys	Leu	Val	Val	Ala	Tyr	Gly	Leu		
			420					425					430				
Asp	Ile	Tyr	Gln	Thr	Arg	Val	Tyr	Pro	Ser	Lys	Gln	Phe	Asp	Val	Leu		
		435					440					445					
Lys	Asp	Asp	Tyr	Asp	Tyr	Val	Leu	Ile	Ser	Ser	Val	Leu	Phe	Gly	Leu		
		450				455					460						
Val	Phe	Ala	Thr	Met	Ile	Thr	Lys	Arg	Leu	Ala	Gln	Val	Lys	Leu	Leu		
	465				470					475					480		

[illegible]

<400> 1807																
Met	Ala	Ala	Glu	Trp	Ala	Ser	Arg	Phe	Trp	Leu	Trp	Ala	Thr	Leu	Leu	
1				5					10					15		
Ile	Pro	Ala	Ala	Ala	Val	Tyr	Glu	Asp	Gln	Val	Gly	Lys	Phe	Asp	Trp	
			20					25					30			
Arg	Gln	Gln	Tyr	Val	Gly	Lys	Val	Lys	Phe	Ala	Ser	Leu	Glu	Phe	Ser	
		35					40					45				
Pro	Gly	Ser	Lys	Lys	Leu	Val	Val	Ala	Thr	Glu	Lys	Asn	Val	Ile	Ala	
	50					55					60					
Ala	Leu	Asn	Ser	Arg	Thr	Gly	Glu	Ile	Leu	Trp	Arg	His	Val	Asp	Lys	
65					70					75					80	
Gly	Thr	Ala	Glu	Gly	Ala	Val	Asp	Ala	Met	Leu	Leu	His	Gly	Gln	Asp	
				85					90					95		
Val	Ile	Thr	Val	Ser	Asn	Gly	Gly	Arg	Ile	Met	Arg	Ser	Trp	Glu	Thr	
			100					105					110			
Asn	Ile	Gly	Gly	Leu	Asn	Trp	Glu	Ile	Thr	Leu	Asp	Ser	Gly	Ser	Phe	
		115					120					125				
Gln	Ala	Leu	Gly	Leu	Val	Gly	Leu	Gln	Glu	Ser	Val	Arg	Tyr	Ile	Ala	
	130					135					140					
Val	Leu	Lys	Lys	Thr	Thr	Leu	Ala	Leu	His	His	Leu	Ser	Ser	Gly	His	
145					150				155						160	
Leu	Lys	Trp	Val	Glu	His	Leu	Pro	Glu	Ser	Asp	Ser	Ile	His	Tyr	Gln	
				165					170					175		
Met	Val	Tyr	Ser	Tyr	Gly	Ser	Gly	Val	Val	Trp	Ala	Leu	Gly	Val	Val	
		180						185					190			
Pro	Phe	Ser	His	Val	Asn	Ile	Val	Lys	Phe	Asn	Val	Glu	Asp	Gly	Glu	
		195					200					205				
Ile	Val	Gln	Gln	Val	Arg	Val	Ser	Thr	Pro	Trp	Leu	Gln	His	Leu	Ser	
	210					215					220					
Gly	Ala	Cys	Gly	Val	Val	Asp	Glu	Ala	Val	Leu	Val	Cys	Pro	Asp	Pro	
225					230					235					240	
Ser	Ser	Arg	Ser	Leu	Gln	Thr	Leu	Ala	Leu	Glu	Thr	Glu	Trp	Glu	Leu	
				245					250					255		

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Gly

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1811

Met His Leu Gly Leu Val Ser Leu Ile Leu Phe Cys Gln Ala Leu Glu
1 5 10 15

Val Asp Ile Ser Leu Gln Gly Pro Gly Ile Val Pro Gly Arg Ser Glu
20 25 30

Val Ser Leu Ser Leu Gln Gly Pro Arg Gly Gly Gly Cys Phe Pro Ile
35 40 45

Ala Thr Gly Ala Pro Phe Ile Val Leu Leu Pro Leu Gly Leu Tyr Leu
50 55 60

Val Phe His Leu Cys Cys Phe Phe Gly Leu Phe Cys Ala Xaa Leu Arg
65 70 75 80

Leu Arg Glu Pro Gly Trp Asp His Leu Ile Ile
85 90

<210> 1812

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1812

Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser
1 5 10 15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro
20 25 30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly
35 40 45

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Xaa Gly
50 55 60

Pro Xaa Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu
65 70 75 80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val
85 90 95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser
100 105 110

Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
115 120 125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala
130 135 140

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr
145 150 155 160

Glu Val Lys Asp Gln Val Glu Thr Gln Gly Gln Glu Asp Asn Lys Arg
165 170 175

Gly Pro Cys Ser Asn Gly Glu Ala Ala Ser Thr Ser Arg Pro Leu Glu
180 185 190

Thr Gln Gly Asn Leu Thr Ser Ser Trp Tyr Asn Pro Arg Pro Leu Glu
195 200 205

Gly Asn Val His Leu Lys Ser Leu Thr Glu Lys Asn Gln Thr Asp Lys
210 215 220

Ala Gln Val His Ala Val
225 230

<210> 1813
<211> 232
<212> PRT
<213> Homo sapiens

<400> 1813
Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser
1 5 10 15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro
20 25 30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly
35 40 45

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Leu Gly
50 55 60

Pro Ser Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu
65 70 75 80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val
85 90 95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser
100 105 110

Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
115 120 125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala
130 135 140

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr

[illegible]

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<400> 1814
Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe
  1                               10                      15

Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Leu Asn Ser
      20                      25                      30

Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly
      35                      40                      45

Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly
  50                      55                      60

Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu
  65                      70                      75                      80

Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe
      85                      90                      95

Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Asp Pro Phe
      100                      105                      110

Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln
      115                      120                      125

Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser
      130                      135                      140

Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro
      145                      150                      155

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<210> 1815
<211> 213
<212> PRT
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65	70	75	80
Ser Tyr Val Leu Thr	Val Gly Phe Met	Ser Phe Ala Val Cys Tyr Lys	
85		90	95
Tyr Gly Pro Leu Glu Asn Glu Arg	Ser Ile Asn Leu Leu Thr Trp Thr		
100	105	110	
Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro			
115	120	125	
His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu			
130	135	140	
Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys			
145	150	155	160
Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr			
165	170	175	
Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg			
180	185	190	
Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg			
195	200	205	
Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His			
210	215	220	
Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly			
225	230	235	240
Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu			
245	250	255	
Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu			
260	265	270	

Thr

<210> 1820
 <211> 96
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

0983345 "041201"

115 120 125
His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu
130 135 140
Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys
145 150 155 160
Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr
165 170 175
Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg
180 185 190
Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg
195 200 205
Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His
210 215 220
Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly
225 230 235 240
Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu
245 250 255
Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu
260 265 270

Thr

<210> 1822
<211> 273
<212> PRT
<213> Homo sapiens

<400> 1822
Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr
1 5 10 15
Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile
20 25 30
Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val
35 40 45
Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val
50 55 60
Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu
65 70 75 80
Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys
85 90 95
Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr
100 105 110

1169

0963245-041201

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro
 115 120 125

His Ile Ala Leu Ala Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu
 130 135 140

Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys
 145 150 155 160

Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Thr Glu Glu Glu Tyr
 165 170 175

Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg
 180 185 190

Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg
 195 200 205

Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His
 210 215 220

Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly
 225 230 235 240

Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu
 245 250 255

Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu
 260 265 270

Thr

<210> 1823
 <211> 105
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1823
 Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn
 1 5 10 15

Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser
 20 25 30

Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys
 35 40 45

Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val
 50 55 60

Gly Arg Gly Glu Xaa Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser

Table 1. <i>Continued</i>					
Variable	Mean	SD	Median	Mode	Range
Age	34.5	10.5	33.0	30.0	18-55
Gender					
Male	10.0	0.0	10.0	10.0	10-10
Female	10.0	0.0	10.0	10.0	10-10
Marital status					
Married	10.0	0.0	10.0	10.0	10-10
Single	10.0	0.0	10.0	10.0	10-10
Education					
High school	10.0	0.0	10.0	10.0	10-10
College	10.0	0.0	10.0	10.0	10-10
Postgraduate	10.0	0.0	10.0	10.0	10-10
Occupation					
Student	10.0	0.0	10.0	10.0	10-10
Teacher	10.0	0.0	10.0	10.0	10-10
Engineer	10.0	0.0	10.0	10.0	10-10
Doctor	10.0	0.0	10.0	10.0	10-10
Nurse	10.0	0.0	10.0	10.0	10-10
Other	10.0	0.0	10.0	10.0	10-10
Income					
Low	10.0	0.0	10.0	10.0	10-10
Medium	10.0	0.0	10.0	10.0	10-10
High	10.0	0.0	10.0	10.0	10-10
Health status					
Good	10.0	0.0	10.0	10.0	10-10
Fair	10.0	0.0	10.0	10.0	10-10
Poor	10.0	0.0	10.0	10.0	10-10
Smoking status					
Smoker	10.0	0.0	10.0	10.0	10-10
Nonsmoker	10.0	0.0	10.0	10.0	10-10
Alcohol consumption					
Regular	10.0	0.0	10.0	10.0	10-10
Occasional	10.0	0.0	10.0	10.0	10-10
Never	10.0	0.0	10.0	10.0	10-10

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<400> 1824
Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn
  1             5             10             15

Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser
      20             25             30

Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys
      35             40             45

Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val
  50             55             60

Gly Arg Gly Glu Glu Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser
  65             70             75             80

Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His
      85             90             95

Phe Asn Leu His Phe Arg Asp Thr Phe
      100             105

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<400> 1825
Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu
  1                      5                      10                      15

Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly
                20                      25                      30

His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro
        35                      40                      45

Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Cys Gly Glu
  50                      55                      60

Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe
  65                      70                      75                      80

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Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val
 130 135 140
 Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
 145 150 155 160
 Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe
 165 170 175
 Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
 180 185 190
 Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala
 195 200 205
 Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
 210 215 220
 Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg
 225 230 235 240
 Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser
 245 250 255
 Lys His Asp Tyr Val
 260

<210> 1828

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1828

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile
 1 5 10 15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr
 20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly
 35 40 45

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg
 50 55 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg
 65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val
85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser
100 105 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Xaa Ile Xaa Ser
115 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val
130 135 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe
165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
180 185 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala
195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg
225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser
245 250 255

Lys His Asp Tyr Val
260

<210> 1829
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1829
Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe
35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile
50 55 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln
65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
85 90

<210> 1830
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1830
Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
1 5 10 15
Leu Leu Pro Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
20 25 30
Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe
35 40 45
Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile
50 55 60
Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln
65 70 75 80
Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
85 90

<210> 1831
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1831
Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
1 5 10 15
Leu Leu Pro Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
20 25 30
Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe
35 40 45
Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile
50 55 60
Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln
65 70 75 80
Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
85 90

<210> 1832
<211> 270
<212> PRT

Climatic Data		Soil Data		Vegetation Data		Water Data		Air Data		Soil Data		Vegetation Data		Water Data		Air Data	
Year	Month	Temp (°C)	Humidity (%)	Soil Temp (°C)	Soil Moisture (%)	Plant Height (cm)	Leaf Area (cm²)	Stem Diameter (cm)	Root Length (cm)	Soil Temp (°C)	Soil Moisture (%)	Plant Height (cm)	Leaf Area (cm²)	Stem Diameter (cm)	Root Length (cm)	Soil Temp (°C)	Soil Moisture (%)
2010	Jan	15.2	65.1	12.5	15.2	10.5	15.2	1.2	15.2	12.5	15.2	10.5	15.2	1.2	15.2	12.5	15.2
2010	Feb	16.8	68.5	13.1	16.8	11.2	16.8	1.3	16.8	13.1	16.8	11.2	16.8	1.3	16.8	13.1	16.8
2010	Mar	18.5	72.3	14.2	18.5	12.1	18.5	1.4	18.5	14.2	18.5	12.1	18.5	1.4	18.5	14.2	18.5
2010	Apr	20.1	75.8	15.3	20.1	13.2	20.1	1.5	20.1	15.3	20.1	13.2	20.1	1.5	20.1	15.3	20.1
2010	May	22.5	78.2	16.8	22.5	14.5	22.5	1.6	22.5	16.8	22.5	14.5	22.5	1.6	22.5	16.8	22.5
2010	Jun	24.8	80.5	18.2	24.8	15.8	24.8	1.7	24.8	18.2	24.8	15.8	24.8	1.7	24.8	18.2	24.8
2010	Jul	26.5	82.1	19.5	26.5	16.5	26.5	1.8	26.5	19.5	26.5	16.5	26.5	1.8	26.5	19.5	26.5
2010	Aug	27.2	83.5	20.1	27.2	17.2	27.2	1.9	27.2	20.1	27.2	17.2	27.2	1.9	27.2	20.1	27.2
2010	Sep	25.8	81.2	18.5	25.8	16.2	25.8	1.8	25.8	18.5	25.8	16.2	25.8	1.8	25.8	18.5	25.8
2010	Oct	23.5	78.5	16.2	23.5	14.8	23.5	1.6	23.5	16.2	23.5	14.8	23.5	1.6	23.5	16.2	23.5
2010	Nov	21.2	75.2	14.5	21.2	13.5	21.2	1.5	21.2	14.5	21.2	13.5	21.2	1.5	21.2	14.5	21.2
2010	Dec	18.5	72.5	12.8	18.5	11.8	18.5	1.3	18.5	12.8	18.5	11.8	18.5	1.3	18.5	12.8	18.5
2011	Jan	16.2	69.8	13.2	16.2	11.5	16.2	1.4	16.2	13.2	16.2	11.5	16.2	1.4	16.2	13.2	16.2
2011	Feb	17.8	73.2	14.5	17.8	12.8	17.8	1.5	17.8	14.5	17.8	12.8	17.8	1.5	17.8	14.5	17.8
2011	Mar	19.5	76.5	15.8	19.5	14.2	19.5	1.6	19.5	15.8	19.5	14.2	19.5	1.6	19.5	15.8	19.5
2011	Apr	21.2	79.8	17.2	21.2	15.5	21.2	1.7	21.2	17.2	21.2	15.5	21.2	1.7	21.2	17.2	21.2
2011	May	23.5	82.1	18.5	23.5	16.8	23.5	1.8	23.5	18.5	23.5	16.8	23.5	1.8	23.5	18.5	23.5
2011	Jun	25.8	84.5	19.8	25.8	18.2	25.8	1.9	25.8	19.8	25.8	18.2	25.8	1.9	25.8	19.8	25.8
2011	Jul	27.2	86.2	21.2	27.2	19.5	27.2	2.0	27.2	21.2	27.2	19.5	27.2	2.0	27.2	21.2	27.2
2011	Aug	26.5	85.5	20.5	26.5	18.8	26.5	1.9	26.5	20.5	26.5	18.8	26.5	1.9	26.5	20.5	26.5
2011	Sep	24.8	83.2	18.2	24.8	17.2	24.8	1.8	24.8	18.2	24.8	17.2	24				

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Gly Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln

205

Cys Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser
260 265 270

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg
1 5 10 15

Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser
20 25 30

Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala
35 40 45

Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp
50 55 60

Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys

1177

[illegible]

Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys Cys
260 265 270

Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu Xaa
275 280 285

Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe Gly
290 295 300

Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys Thr
305 310 315 320

Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln Cys
325 330 335

Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys Gly
340 345 350

Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe Gly
355 360 365

Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln Gly
370 375 380

Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser Pro
385 390 395 400

Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe Ser
405 410 415

Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala Cys
420 425 430

Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser
435 440 445

<210> 1836
<211> 370
<212> PRT
<213> Homo sapiens

<400> 1836
Leu Gly Gly Ala Arg Val Arg Arg Ala Val Gly Leu Ser Gly Thr Gly
1 5 10 15

Ala Glu Ala Gly Arg Ala Gly Ala Met Val Glu Lys Glu Glu Ala Gly
20 25 30

Gly Gly Ile Ser Glu Glu Glu Ala Ala Gln Tyr Asp Arg Gln Ile Arg
35 40 45

Leu Trp Gly Leu Glu Ala Gln Lys Arg Leu Arg Ala Ser Arg Val Leu
50 55 60

Leu Val Gly Leu Lys Gly Leu Gly Ala Glu Ile Ala Lys Asn Leu Ile
65 70 75 80

<211> 42
<212> PRT
<213> Homo sapiens

<400> 1837
Met Val Pro Ser Val Thr Leu Ile Leu His Cys Pro Gly Phe Ser Thr
1 5 10 15
Glu Ser His Met Cys Gly Lys Pro Leu Ser Pro Arg Pro Thr Arg Thr
20 25 30
Val Gly Arg Pro Val Ser Asn Ile Pro Val
35 40

<210> 1838
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1838
Val Gln Gly Val Val Gln Ala Leu Lys Thr Asp His Ala Phe Cys Pro
1 5 10 15
Xaa Leu Gln Gly Thr Glu Ser Ile Arg Leu Arg Ile Leu Glu Phe Glu
20 25 30
Leu Asn Gln Val Arg Ser Val Ser Gln Glu Leu Pro Pro Gly Xaa Pro
35 40 45
Glu Ser Pro Gln Thr Asp Gly Gln Pro Pro Arg Ala Trp Pro Gln Leu
50 55 60
Gly Met Pro Ser Asn Pro Thr Cys Phe Ser Phe Leu Pro Gly Tyr Ser
65 70 75 80
Gly Leu Arg Ser Ser Ala Leu Asn Phe
85

<210> 1839
<211> 346
<212> PRT
<213> Homo sapiens

<400> 1839
Met Val Glu Lys Glu Glu Ala Gly Gly Gly Ile Ser Glu Glu Glu Ala
1 5 10 15

145

150

155

<210> 1841
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1841
 Tyr Thr Phe Gln Cys Leu Ser Gln Thr Cys Ser Tyr Asp Ile Lys Cys
 1 5 10 15
 Tyr Phe Leu Val Ala Lys Ile Ile Leu Asp Ser Val Ile Lys Val Tyr
 20 25 30
 Trp Asn Leu Asn Phe Lys Met Ser Pro Asp
 35 40

<210> 1842
 <211> 265
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1842
 Pro Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr Ser Gly
 1 5 10 15
 Ser Pro Gly Leu Gln Xaa Phe Gly Thr Arg Arg Thr Arg Gly Arg Ser
 20 25 30
 Gly Arg Ala Gln Gly Arg Leu Lys Arg Pro Gly Lys Leu Ala Cys Arg
 35 40 45
 Lys Phe Pro Gly Arg Arg Gln Arg Val Val Pro Glu Leu Thr Asp Val
 50 55 60
 Leu Met Asn Glu Ile Leu His Gly Ala Asp Gly Thr Ser Ile Lys Cys
 65 70 75 80
 Gly Ile Ile Gly Glu Ile Gly Cys Ser Trp Pro Leu Thr Glu Ser Glu
 85 90 95
 Arg Lys Val Leu Gln Ala Thr Ala His Ala Gln Ala Gln Leu Gly Cys
 100 105 110
 Pro Val Ile Ile His Pro Gly Arg Ser Ser Arg Ala Pro Phe Gln Ile
 115 120 125
 Ile Arg Ile Leu Gln Glu Ala Gly Ala Asp Ile Ser Lys Thr Val Met
 130 135 140
 Ser His Leu Asp Arg Thr Ile Leu Asp Lys Lys Glu Leu Leu Glu Phe
 1185

00333245 "04.1.001

Study		Age		Gender		Sample Size		Outcome	
Author	Year	Mean	Range	Male	Female	N	Group	Effect Size	Significance
1	1998	25.5	18-35	50	50	100	Control	0.15	0.05
2	2001	28.2	20-40	60	40	100	Control	0.20	0.01
3	2003	30.1	22-45	70	30	100	Control	0.25	0.001
4	2005	32.0	24-48	80	20	100	Control	0.30	0.0001
5	2007	34.5	26-50	90	10	100	Control	0.35	0.00001
6	2009	36.8	28-52	100	0	100	Control	0.40	0.000001
7	2011	38.5	30-55	110	0	110	Control	0.45	0.0000001
8	2013	40.2	32-58	120	0	120	Control	0.50	0.00000001
9	2015	42.0	34-60	130	0	130	Control	0.55	0.000000001
10	2017	43.5	35-62	140	0	140	Control	0.60	0.0000000001
11	2019	45.0	36-65	150	0	150	Control	0.65	0.00000000001
12	2021	46.5	37-68	160	0	160	Control	0.70	0.000000000001
13	2023	48.0	38-70	170	0	170	Control	0.75	0.0000000000001
14	2025	49.5	39-72	180	0	180	Control	0.80	0.00000000000001
15	2027	51.0	40-75	190	0	190	Control	0.85	0.000000000000001
16	2029	52.5	41-78	200	0	200	Control	0.90	0.0000000000000001
17	2031	54.0	42-80	210	0	210	Control	0.95	0.00000000000000001
18	2033	55.5	43-82	220	0	220	Control	1.00	0.000000000000000001
19	2035	57.0	44-85	230	0	230	Control	1.05	0.0000000000000000001
20	2037	58.5	45-88	240	0	240	Control	1.10	0.00000000000000000001
21	2039	60.0	46-90	250	0	250	Control	1.15	0.000000000000000000001
22	2041	61.5	47-92	260	0	260	Control	1.20	0.0000000000000000000001
23	2043	63.0	48-95	270	0	270	Control	1.25	0.00000000000000000000001
24	2045	64.5	49-98	280	0	280	Control	1.30	0.000000000000000000000001
25	2047	66.0	50-100	290	0	290	Control	1.35	0.0000000000000000000000001
26	2049	67.5	51-102	300	0	300	Control	1.40	0.00000000000000000000000001
27	2051	69.0	52-105	310	0	310	Control	1.45	0.000000000000000000000000001
28	2053	70.5	53-108	320	0	320	Control	1.50	0.0000000000000000000000000001
29	2055	72.0	54-110	330	0	330	Control	1.55	0.00000000000000000000000000001
30	2057	73.5	55-112	340	0	340	Control	1.60	0.000000000000000000000000000001
31	2059	75.0	56-115	350	0	350	Control	1.65	0.0000000000000000000000000000001
32	2061	76.5	57-118	360	0	360	Control	1.70	0.00000000000000000000000000000001
33	2063	78.0	58-120	370	0	370	Control	1.75	0.000000000000000000000000000000001
34	2065	79.5	59-122	380	0	380	Control	1.80	0.0000000000000000000000000000000001
35	2067	81.0	60-125	390	0	390	Control	1.85	

<400> 1843

Leu Ala Ile Gly Ser Ala Ala Thr Leu Gly Ser Gly Gly Met Ala Arg
145 150 155 160

Gly Arg Glu Pro Gly Gly Val Gly His Val Val Ala Gln Val Gln Ser
165 170 175

Val Asp Gly Asn Ala Gln Cys Cys Asp Cys Arg Glu Pro Ala Pro Glu
180 185 190

Trp Ala Ser Ile Asn Leu Gly Val Thr Leu Cys Ile Gln Cys Ser Gly
195 200 205

Ile His Arg Ser Leu Gly Val His Phe Ser Lys Val Arg Ser Leu Thr
210 215 220

Leu Asp Ser Trp Glu Pro Glu Leu Val Lys Leu Met Cys Glu Leu Gly
225 230 235 240

Asn Val Ile Ile Asn Gln Ile Tyr Glu Ala Arg Val Glu Ala Met Ala
245 250 255

Val Lys Lys Pro Gly Pro Ser Cys Ser Arg Gln Glu Lys Glu Ala Trp
260 265 270

Ile His Ala Lys Tyr Val Glu Lys Lys Phe Leu Thr Lys Leu Pro Glu
275 280 285

Ile Arg Gly Arg Arg Gly Gly Arg Gly Arg Pro Arg Gly Gln Pro Pro
290 295 300

Val Pro Pro Lys Pro Ser Ile Arg Pro Arg Pro Gly Ser Leu Arg Ser
305 310 315 320

Lys Pro Glu Pro Pro Ser Glu Asp Leu Gly Ser Leu His Pro Gly Ala
325 330 335

Leu Leu Phe Arg Ala Ser Gly His Pro Pro Ser Leu Pro Thr Met Ala
340 345 350

Asp Ala Leu Ala His Gly Ala Asp Val Asn Trp Val Asn Gly Gly Gln
355 360 365

Asp Asn Ala Thr Pro Leu Ile Gln Ala Thr Ala Ala Asn Ser Leu Leu
370 375 380

Ala Cys Glu Phe Leu Leu Gln Asn Gly Ala Asn Val Asn Gln Ala Asp
385 390 395 400

Ser Ala Gly Arg Gly Pro Leu His His Ala Thr Ile Leu Gly His Thr
405 410 415

Gly Leu Ala Cys Leu Phe Leu Lys Arg Gly Ala Asp Leu Gly Ala Arg
420 425 430

Asp Ser Glu Gly Arg Asp Pro Leu Thr Ile Ala Met Glu Thr Ala Asn
435 440 445

Ala Asp Ile Val Thr Leu Leu Arg Leu Ala Lys Met Arg Glu Ala Glu
450 455 460

Ala Ala Gln Gly Gln Ala Gly Asp Glu Thr Tyr Leu Asp Ile Phe Arg
465 470 475 480

Ser Thr Val Leu Arg Ser Gly Ser Thr Val Leu Arg Asn Gly Ser Thr
145 150 155 160

Leu Leu Arg Asn Gly Ser Thr Val Leu Gly Asn Gly His Thr Val Leu
165 170 175

Gly Asn Gly His Thr Val Leu Arg Asn Gly Ser Thr Val Leu Gly Asn
180 185 190

Gly Ser Thr Val Leu Gly Asn Gly Ser Pro Gln Tyr Trp Glu Arg Gly
195 200 205

Val His Ser Thr Arg Lys Trp Glu His Ser Thr Gly Lys Trp Glu His
210 215 220

Ser Thr Gly Lys Trp Glu His Ser Thr Gly Lys Pro Gln Thr Trp Ile
225 230 235 240

Leu Ser Phe Ser Ala
245

<210> 1850
<211> 209
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1850
Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile
1 5 10 15

Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu
20 25 30

Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu
35 40 45

Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala

Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Leu Gly Gly
 115 120 125
 Ala Pro Leu Gln Gly Leu Thr Leu Pro Asn Lys Ala Thr Leu Gly His
 130 135 140
 Phe Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr
 145 150 155 160
 Arg Glu Phe Leu Glu Gly Phe Val Asp Asp Leu Leu Glu Ala Leu Arg
 165 170 175
 Ser Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly
 180 185 190
 Val Asp Ser Met Tyr Glu Asn Trp Gln Val Asp Arg Pro Leu Leu Cys
 195 200 205
 His Leu Phe Val Pro Phe Thr Pro Pro Glu Pro Tyr Arg Phe His Pro
 210 215 220
 Glu Leu Trp Cys Ser Gly Arg Ser Val Pro Leu Asp Arg Gln Gly Tyr
 225 230 235 240
 Gly Gln Ile Lys Val Val Arg Ala Asp Gly Asp Thr Leu Ser Cys Ile
 245 250 255
 Cys Gly Lys Thr Lys Leu Gly Glu Asp Met Leu Cys Leu Leu His Gly
 260 265 270
 Arg Asn Ser Met Ala Pro Pro Cys Gly Asp Met Glu Asn Leu Leu Cys
 275 280 285
 Ala Thr Asp Ser Leu Tyr Leu Asp Thr Met Gln Val Met Lys Trp Phe
 290 295 300
 Gln Thr Ala Leu Thr Arg Ala Trp Lys Gly Ile Ala His Lys Tyr Glu
 305 310 315 320
 Phe Asp Leu Ala Phe Gly Gln Leu Asp Ser Pro Gly Ser Leu Lys Ile
 325 330 335
 Lys Phe Arg Ser Gly Lys Phe Met Pro Phe Asn Leu Ile Pro Val Ile
 340 345 350
 Gln Cys Asp Asp Ser Asp Leu Tyr Phe Val Ser His Leu Pro Arg Glu
 355 360 365
 Pro Ser Glu Gly Thr Pro Ala Ser Ser Thr Asp Trp Leu Leu Ser Phe
 370 375 380
 Ala Val Tyr Glu Arg His Phe Leu Arg Thr Thr Leu Lys Ala Leu Pro
 385 390 395 400
 Glu Gly Ala Cys His Leu Ser Cys Leu Gln Ile Ala Ser Phe Leu Leu
 405 410 415
 Ser Lys Gln Ser Arg Leu Thr Gly Pro Ser Gly Leu Ser Ser Tyr His
 420 425 430

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg
 50 55 60
 Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp
 65 70 75 80
 Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln
 85 90 95
 His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr
 100 105 110
 Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile
 115 120 125
 Cys His Tyr Glu Lys Ser Phe His Lys His Ser Xaa Thr Pro Asn Tyr
 130 135 140
 Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp
 145 150 155 160
 Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn
 165 170 175
 Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser
 180 185 190
 Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln
 195 200 205
 Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro
 210 215 220
 Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala
 225 230 235 240
 Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile
 245 250 255
 Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg
 260 265 270
 Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val
 275 280 285
 Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro
 290 295 300
 Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly
 305 310 315 320
 Thr Gly Ala Arg Xaa Leu Ala Ala Xaa Ser Leu Asp Pro Gln Xaa Pro
 325 330 335
 Arg Xaa Xaa His Thr Arg Gln Ala Val Ala Lys Cys Lys Glu Lys Leu
 340 345 350
 Pro Val Glu Asp Leu
 355

<210> 1855
 <211> 434
 <212> PRT
 <213> Homo sapiens

<400> 1855

Met	Gly	Met	Gly	Arg	Gly	Ala	Gly	Arg	Ser	Ala	Leu	Gly	Phe	Trp	Pro	1	5	10	15
Thr	Leu	Ala	Phe	Leu	Leu	Cys	Ser	Phe	Pro	Ala	Ala	Thr	Ser	Pro	Cys	20	25	30	
Lys	Ile	Leu	Lys	Cys	Asn	Ser	Glu	Phe	Trp	Ser	Ala	Thr	Ser	Gly	Ser	35	40	45	
His	Ala	Pro	Ala	Ser	Asp	Asp	Thr	Pro	Glu	Phe	Cys	Ala	Ala	Leu	Arg	50	55	60	
Ser	Tyr	Ala	Leu	Cys	Thr	Arg	Arg	Thr	Ala	Arg	Thr	Cys	Arg	Gly	Asp	65	70	75	80
Leu	Ala	Tyr	His	Ser	Ala	Val	His	Gly	Ile	Glu	Asp	Leu	Met	Ser	Gln	85	90	95	
His	Asn	Cys	Ser	Lys	Asp	Gly	Pro	Thr	Ser	Gln	Pro	Arg	Leu	Arg	Thr	100	105	110	
Leu	Pro	Pro	Ala	Gly	Asp	Ser	Gln	Glu	Arg	Ser	Asp	Ser	Pro	Glu	Ile	115	120	125	
Cys	His	Tyr	Glu	Lys	Ser	Phe	His	Lys	His	Ser	Ala	Thr	Pro	Asn	Tyr	130	135	140	
Thr	His	Cys	Gly	Leu	Phe	Gly	Asp	Pro	His	Leu	Arg	Thr	Phe	Thr	Asp	145	150	155	160
Arg	Phe	Gln	Thr	Cys	Lys	Val	Gln	Gly	Ala	Trp	Pro	Leu	Ile	Asp	Asn	165	170	175	
Asn	Tyr	Leu	Asn	Val	Gln	Val	Thr	Asn	Thr	Pro	Val	Leu	Pro	Gly	Ser	180	185	190	
Ala	Ala	Thr	Ala	Thr	Ser	Lys	Leu	Thr	Ile	Ile	Phe	Lys	Asn	Phe	Gln	195	200	205	
Glu	Cys	Val	Asp	Gln	Lys	Val	Tyr	Gln	Ala	Glu	Met	Asp	Glu	Leu	Pro	210	215	220	
Ala	Ala	Phe	Val	Asp	Gly	Ser	Lys	Asn	Gly	Gly	Asp	Lys	His	Gly	Ala	225	230	235	240
Asn	Ser	Leu	Lys	Ile	Thr	Glu	Lys	Val	Ser	Gly	Gln	His	Val	Glu	Ile	245	250	255	
Gln	Ala	Lys	Tyr	Ile	Gly	Thr	Thr	Ile	Val	Val	Arg	Gln	Val	Gly	Arg	260	265	270	

100	105	110
Lys Asp Gly Lys Arg Glu Thr Thr Val Ser Gln Leu Leu Ile Asn Pro		
115	120	125
Thr Asp Leu Asp Ile Gly Arg Val Phe Thr Cys Arg Ser Met Asn Glu		
130	135	140
Ala Ile Pro Ser Gly Lys Glu Thr Ser Ile Glu Leu Asp Val His His		
145	150	155
Pro Pro Thr Val Thr Leu Ser Ile Glu Pro Gln Thr Val Gln Glu Gly		
	165	170
Glu Arg Val Val Phe Thr Cys Gln Ala Thr Ala Asn Pro Glu Ile Leu		
	180	185
Gly Tyr Arg Trp Ala Lys Gly Gly Phe Leu Ile Glu Asp Ala His Glu		
	195	200
Ser Arg Tyr Glu Thr Asn Val Asp Tyr Ser Phe Phe Thr Glu Pro Val		
	210	215
Ser Cys Glu Val His Asn Lys Val Gly Ser Thr Asn Val Ser Thr Leu		
	225	230
Val Asn Val His Phe Ala Pro Arg Ile Val Val Asp Pro Lys Pro Thr		
	245	250
Thr Thr Asp Ile Gly Ser Asp Val Thr Leu Thr Cys Val Trp Val Gly		
	260	265
Asn Pro Pro Leu Thr Leu Thr Trp Thr Lys Lys Asp Ser Asn Met Gly		
	275	280
Pro Arg Pro Pro Gly Ser Pro Pro Glu Ala Ala Leu Ser Ala Gln Val		
	290	295
Leu Ser Asn Ser Asn Gln Leu Leu Leu Lys Ser Val Thr Gln Ala Asp		
	305	310
Ala Gly Thr Tyr Thr Cys Arg Ala Ile Val Pro Arg Ile Gly Val Ala		
	325	330
Glu Arg Glu Val Pro Leu Tyr Val Asn Gly Pro Pro Ile Ile Ser Ser		
	340	345
Glu Ala Val Gln Tyr Ala Val Arg Gly Asp Gly Gly Lys Val Glu Cys		
	355	360
Phe Ile Gly Ser Thr Pro Pro Pro Asp Arg Ile Ala Trp Ala Trp Lys		
	370	375
Glu Asn Phe Leu Glu Val Gly Thr Leu Glu Arg Tyr Thr Val Glu Arg		
	385	390
Thr Asn Ser Gly Ser Gly Val Leu Ser Thr Leu Thr Ile Asn Asn Val		
	405	410
Met Glu Ala Asp Phe Gln Thr His Tyr Asn Cys Thr Ala Trp Asn Ser		

420										425										430									
Phe	Gly	Pro	Gly	Thr	Ala	Ile	Ile	Gln	Leu	Glu	Glu	Arg	Glu	Val	Leu														
		435					440					445																	
Pro	Val	Gly	Ile	Ile	Ala	Gly	Ala	Thr	Ile	Gly	Ala	Ser	Ile	Leu	Leu														
		450				455					460																		
Ile	Phe	Phe	Phe	Ile	Ala	Leu	Val	Phe	Phe	Leu	Tyr	Arg	Arg	Arg	Lys														
465					470					475					480														
Gly	Ser	Arg	Lys	Asp	Val	Thr	Leu	Arg	Lys	Leu	Asp	Ile	Lys	Val	Glu														
				485					490					495															
Thr	Val	Asn	Arg	Glu	Pro	Leu	Thr	Met	His	Ser	Asp	Arg	Glu	Asp	Asp														
			500					505					510																
Thr	Ala	Ser	Val	Ser	Thr	Ala	Thr	Arg	Val	Met	Lys	Ala	Ile	Tyr	Ser														
		515					520					525																	
Ser	Phe	Lys	Asp	Asp	Val	Asp	Leu	Lys	Gln	Asp	Leu	Arg	Cys	Asp	Thr														
		530				535					540																		
Ile	Asp	Thr	Arg	Glu	Glu	Tyr	Glu	Met	Lys	Asp	Pro	Thr	Asn	Gly	Tyr														
545					550					555					560														
Tyr	Asn	Val	Arg	Ala	His	Glu	Asp	Arg	Pro	Ser	Ser	Arg	Ala	Val	Leu														
				565					570					575															
Tyr	Ala	Asp	Tyr	Arg	Ala	Pro	Gly	Pro	Ala	Arg	Phe	Asp	Gly	Arg	Pro														
			580					585					590																
Ser	Ser	Arg	Leu	Ser	His	Ser	Ser	Gly	Tyr	Ala	Gln	Leu	Asn	Thr	Tyr														
		595					600					605																	
Ser	Arg	Gly	Pro	Ala	Ser	Asp	Tyr	Gly	Pro	Glu	Pro	Thr	Pro	Pro	Gly														
		610				615					620																		
Pro	Ala	Ala	Pro	Ala	Gly	Thr	Asp	Thr	Thr	Ser	Gln	Leu	Ser	Tyr	Glu														
625					630					635					640														
Asn	Tyr	Glu	Lys	Phe	Asn	Ser	His	Pro	Phe	Pro	Gly	Ala	Ala	Gly	Tyr														
				645					650					655															
Pro	Thr	Tyr	Arg	Leu	Gly	Tyr	Pro	Gln	Ala	Pro	Pro	Ser	Gly	Leu	Glu														
			660					665					670																
Arg	Thr	Pro	Tyr	Glu	Ala	Tyr	Asp	Pro	Ile	Gly	Lys	Tyr	Ala	Thr	Ala														
		675					680					685																	
Thr	Arg	Phe	Ser	Tyr	Thr	Ser	Gln	His	Ser	Asp	Tyr	Gly	Gln	Arg	Phe														
		690				695					700																		
Gln	Gln	Arg	Met	Gln	Thr	His	Val																						
705					710																								

<210> 1857
<211> 81

<212> PRT
<213> Homo sapiens

<400> 1857

Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val
1 5 10 15

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu
20 25 30

Gly Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His
35 40 45

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu
50 55 60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser
65 70 75 80

Val

<210> 1858

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1858

Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val
1 5 10 15

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu
20 25 30

Gly Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His
35 40 45

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu
50 55 60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser
65 70 75 80

Val

<210> 1859

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1859

Met Tyr Trp Gly Ile Phe Phe Ser Ile Leu Asn Phe Leu Ala Phe Phe
1 5 10 15

Ser Leu Val Leu Ile Ser Val Leu Leu Trp Thr Gly Met Val Val Phe

1201

00833245 041201

<210> 1863
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1863
 Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr
 1 5 10 15
 Cys Ser Val Ser Asn Glu Gln Tyr Ala Val Ile Phe Asn Phe Phe Pro
 20 25 30
 Leu Tyr Ile Cys Phe Leu Ser Asp Cys Phe Lys Cys Phe Ser Leu Ser
 35 40 45
 Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe
 50 55 60
 Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser
 65 70 75

<210> 1864
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1864
 Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln
 1 5 10 15
 Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu
 20 25 30
 Pro Leu Gly Arg Xaa Thr Ser Gly Lys Val Gln Gly Asp Ser Thr Thr
 35 40 45
 Val Lys Leu Arg Phe Gly Leu Gln Leu Gly Val Leu Gly Gln Arg
 50 55 60

<210> 1865
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 1865
 Gly Gln Arg Gly Arg Pro Ala Ala Thr Ser His Arg Ile Leu Ser Ser
 1 5 10 15

His Ser Leu Ala Ser Gly Cys Pro Val Phe Arg Gly Gly Glu Gly Thr
20 25 30

Gly Ala Arg Ser Thr Pro Leu Ala Leu Leu Leu Asp Pro Lys Ala Arg
35 40 45

Pro Asp Pro Phe Ile Pro Trp Gly Ala Pro Ala Ser Ala Ile Gly Met
50 55 60

Arg Ser Leu Lys Ser Leu His Lys Gln Val Arg Asp Pro Pro Thr Cys
65 70 75 80

Arg Ser Trp Ala Thr Pro Arg Ala Ile Pro Arg Gly Cys Gly Arg Thr
85 90 95

Gln Pro Pro Thr Asp Arg Arg Pro Glu Ser Ser Glu Gly Ala Ile Pro
100 105 110

Ile Pro Thr Ser Gly Glu Ala Arg Thr Ala Ile Val Ala Ser Gly Lys
115 120 125

Thr Gln Leu Glu Pro Asn Gly Pro Cys Pro His Cys Asn Cys Ala Glu
130 135 140

Asn Val Ser Gln Met Thr Gln Ile Gly Ser Tyr Phe Phe
145 150 155

<210> 1866
<211> 47
<212> PRT
<213> Homo sapiens

<400> 1866
Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln
1 5 10 15

Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu
20 25 30

Pro Leu Gly Arg Gly Thr Leu Glu Gly Gln Gly Asp Pro Gln Leu
35 40 45

<210> 1867
<211> 89
<212> PRT
<213> Homo sapiens

<400> 1867
Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met
1 5 10 15

Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe
20 25 30

Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met

Cys Val Cys Val Phe Asn Ser Ser Val Cys Lys Leu Phe
85 90

<210> 1870
<211> 304
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1870
Met Ser Ser Ser Glu Met Trp Thr Val Leu Trp His Arg Phe Ser Met
1 5 10 15
Val Leu Arg Leu Pro Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser
20 25 30
Leu Ser Ser Pro Pro Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro
35 40 45
Gln Gly Ile Phe Leu Ser His Gly Ser Ile Leu Met Ser Ile Leu Lys
50 55 60
His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala Pro His
65 70 75 80
Gly Ser Glu Phe Leu Pro Val Val Val Leu Ser Val Cys Gln Leu Leu
85 90 95
Cys Xaa Pro Phe Ala Leu Asp Met Asp Ala Asp Leu Leu Ile Asp Val
100 105 110
Leu Ala Asp Leu Arg Asp Ser Glu Val Ala Ala His Leu Leu Gln Val
115 120 125
Cys Cys Tyr His Leu Pro Leu Met Gln Val Glu Leu Pro Ile Ser Leu
130 135 140
Leu Thr Arg Leu Ala Leu Met Asp Pro Thr Ser Leu Asn Gln Phe Val
145 150 155 160
Asn Thr Val Ser Ala Xaa Pro Arg Thr Ile Val Ser Phe Leu Ser Val
165 170 175
Ala Leu Leu Ser Asp Gln Pro Leu Leu Thr Ser Asp Leu Leu Ser Leu

1207

002210" 54222350

<220>
 <221> SITE
 <222> (168)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (169)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (178)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (442)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1874
 Met Thr Ile Gly Phe Ala Leu Gln Leu Leu Gly Gly Pro Phe Gln Arg
 1 5 10 15
 Arg Leu Pro Gly Leu Gln Leu Arg Gln Pro Ser Xaa Pro Ser Leu Arg
 20 25 30
 Pro Ala Leu Pro Ser Cys Pro Pro Arg Gln Arg Leu Val Phe Leu Lys
 35 40 45
 Thr His Lys Ser Gly Ser Ser Ser Val Leu Ser Leu Leu His Arg Tyr
 50 55 60
 Gly Asp Gln His Gly Leu Arg Phe Ala Leu Pro Ala Arg Tyr Gln Phe
 65 70 75 80
 Gly Tyr Pro Lys Leu Phe Gln Ala Ser Arg Val Lys Gly Tyr Arg Pro
 85 90 95
 Gln Gly Gly Gly Thr Gln Leu Pro Phe His Ile Leu Cys His His Met
 100 105 110
 Arg Phe Asn Leu Lys Glu Val Leu Gln Val Met Pro Ser Asp Ser Phe
 115 120 125
 Phe Phe Ser Ile Val Arg Asp Pro Ala Ala Leu Ala Arg Ser Ala Phe
 130 135 140
 Ser Tyr Tyr Lys Ser Thr Ser Ser Ala Phe Arg Lys Ser Pro Ser Leu
 145 150 155 160
 Ala Ala Phe Leu Ala Asn Pro Xaa Xaa Phe Xaa Arg Pro Gly Ala Arg
 165 170 175

05833345 "041204"

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His
50 55 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu
65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu
85 90 95

<210> 1881

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1881

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile
1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr
20 25 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly
35 40 45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His
50 55 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu
65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu
85 90 95

Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe
100 105 110

Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe
115 120

<210> 1882

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1882

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile
1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr
20 25 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly

1216

09833245-044204

Gly Gly Gly Trp Ser Glu Arg Arg Ser Cys His Xaa Thr Pro Ala Trp
 20 25 30
 Val Thr Glu Arg Gln Thr Val Ser Lys Lys Lys Lys Lys Lys Lys Asn
 35 40 45
 Val Arg Lys Glu Val Glu Ser Tyr Phe His Leu Tyr Phe Ser His Cys
 50 55 60
 Leu Ala
 65

<210> 1885
 <211> 242
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (197)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (198)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (205)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring L-amino acids.

<220>
 <221> SITE
 <222> (228)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (233)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids.

09833245.041201

Leu	Met	His	Arg	Leu	Ala	Pro	His	Cys	Ser	Phe	Ala	Arg	Trp	Leu	Leu	20	25	30
Cys	Asn	Gly	Ser	Leu	Phe	Arg	Tyr	Lys	His	Pro	Ser	Glu	Glu	Glu	Leu	35	40	45
Arg	Ala	Leu	Ala	Gly	Lys	Pro	Arg	Pro	Arg	Gly	Arg	Lys	Glu	Arg	Trp	50	55	60
Ala	Asn	Gly	Leu	Ser	Glu	Glu	Lys	Pro	Leu	Ser	Val	Pro	Arg	Asp	Ala	65	70	75
Pro	Phe	Gln	Leu	Glu	Thr	Cys	Pro	Leu	Thr	Thr	Val	Asp	Ala	Leu	Val	85	90	95
Leu	Arg	Phe	Phe	Leu	Glu	Tyr	Gln	Trp	Phe	Val	Asp	Phe	Ala	Val	Tyr	100	105	110
Ser	Gly	Gly	Val	Tyr	Leu	Phe	Thr	Glu	Ala	Tyr	Tyr	Tyr	Met	Leu	Gly	115	120	125
Pro	Ala	Lys	Glu	Thr	Asn	Ile	Ala	Val	Phe	Trp	Cys	Leu	Leu	Thr	Val	130	135	140
Thr	Phe	Ser	Ile	Lys	Met	Phe	Leu	Thr	Val	Thr	Arg	Leu	Tyr	Phe	Ser	145	150	155
Ala	Glu	Glu	Gly	Gly	Glu	Arg	Ser	Val	Cys	Leu	Thr	Phe	Ala	Phe	Leu	165	170	175
Phe	Leu	Leu	Leu	Ala	Met	Leu	Val	Gln	Val	Val	Arg	Glu	Glu	Thr	Leu	180	185	190
Glu	Leu	Gly	Leu	Glu	Pro	Gly	Leu	Ala	Ser	Met	Thr	Gln	Asn	Leu	Glu	195	200	205
Pro	Leu	Leu	Lys	Lys	Gln	Gly	Trp	Asp	Trp	Ala	Leu	Pro	Val	Ala	Lys	210	215	220
Leu	Ala	Ile	Arg	Val	Gly	Leu	Ala	Val	Val	Gly	Ser	Val	Leu	Gly	Ala	225	230	235
Phe	Leu	Thr	Phe	Pro	Gly	Leu	Arg	Leu	Ala	Gln	Thr	His	Arg	Asp	Ala	245	250	255
Leu	Thr	Met	Ser	Glu	Asp	Arg	Pro	Met	Leu	Gln	Phe	Leu	Leu	His	Thr	260	265	270
Ser	Phe	Leu	Ser	Pro	Leu	Phe	Ile	Leu	Trp	Leu	Trp	Thr	Lys	Pro	Ile	275	280	285
Ala	Arg	Asp	Phe	Leu	His	Gln	Pro	Pro	Phe	Gly	Glu	Thr	Arg	Phe	Ser	290	295	300
Leu	Leu	Ser	Asp	Ser	Ala	Phe	Asp	Ser	Gly	Arg	Leu	Trp	Leu	Leu	Val	305	310	315
Val	Leu	Cys	Leu	Leu	Arg	Leu	Ala	Val	Thr	Arg	Pro	His	Leu	Gln	Ala	325	330	335

Tyr Leu Cys Leu Ala Lys Ala Arg Val Glu Gln Leu Arg Arg Glu Ala
340 345 350

Gly Arg Ile Glu Ala Arg Glu Ile Gln Gln Arg Val Val Arg Val Tyr
355 360 365

Cys Tyr Val Thr Val Val Ser Leu Gln Tyr Leu Thr Pro Leu Ile Leu
370 375 380

Thr Leu Asn Cys Thr Leu Leu Leu Lys Thr Leu Gly Gly Tyr Ser Trp
385 390 395 400

Gly Leu Gly Pro Ala Pro Leu Leu Ser Pro Asp Pro Ser Ser Ala Ser
405 410 415

Ala Ala Pro Ile Gly Ser Gly Glu Asp Glu Val Gln Gln Thr Ala Ala
420 425 430

Arg Ile Ala Gly Ala Leu Gly Gly Leu Leu Thr Pro Leu Phe Leu Arg
435 440 445

Gly Val Leu Ala Tyr Leu Ile Trp Trp Thr Ala Ala Cys Gln Leu Leu
450 455 460

Ala Ser Leu Phe Gly Leu Tyr Phe His Gln His Leu Ala Gly Ser
465 470 475

<210> 1887
<211> 122
<212> PRT
<213> Homo sapiens

<400> 1887
Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu
1 5 10 15

Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro
20 25 30

Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr
35 40 45

Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu
50 55 60

Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His
65 70 75 80

Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro
85 90 95

Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg
100 105 110

Ser Cys Cys Val Ser Cys Leu Leu Phe Lys
115 120

<210> 1888
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1888
 Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu
 1 5 10 15
 Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro
 20 25 30
 Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr
 35 40 45
 Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu
 50 55 60
 Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His
 65 70 75 80
 Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro
 85 90 95
 Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg
 100 105 110
 Ser Cys Cys Val Ser Cys Leu Leu Phe Lys
 115 120

<210> 1889
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1889
 Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser
 1 5 10 15
 Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro
 20 25 30
 Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu
 35 40 45
 Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp
 50 55 60
 Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr
 65 70 75 80
 Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala
 85 90

<210> 1890

<211> 100
 <212> PRT
 <213> Homo sapiens

<400> 1892
 Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys
 1 5 10 15
 Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn
 20 25 30
 Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser
 35 40 45
 Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Phe Glu Thr
 50 55 60
 Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser
 65 70 75 80
 Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser
 85 90 95
 Leu Pro Ser Ser
 100

<210> 1893
 <211> 167
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1893
 Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
 1 5 10 15
 Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe
 20 25 30
 Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala
 35 40 45
 Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val
 50 55 60
 Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro
 65 70 75 80
 Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp
 85 90 95
 Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu
 100 105 110

<210> 1895
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 1895
 Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp
 1 5 10 15
 Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe
 20 25 30
 Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val
 35 40 45
 Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val
 50 55 60
 Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly
 65 70 75 80
 Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val
 85 90

<210> 1896
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1896
 Ala Arg Ala Leu Gly Leu Phe Val Ser Met Phe Ser Leu Thr Asn Pro
 1 5 10 15
 Ser Pro Val Leu Ser Ala Leu Leu Gly Tyr Thr Gln Leu Asn Asn Leu
 20 25 30
 Val His Phe Leu Val Trp Glu Pro Leu
 35 40

<210> 1897
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 1897
 Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp
 1 5 10 15
 Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe
 20 25 30
 Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val
 35 40 45
 Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val
 50 55 60

<400> 1899

Ile Ser His Val Leu Ile Asp Ala Tyr Ile Ser Leu Lys Arg Ile Lys
 1 5 10 15

Ser Ser Cys Asn Pro Thr Thr Leu Gly Met Cys Ser Glu Asp Leu Leu
 20 25 30

Arg Leu Cys His Trp Ser
 35

<210> 1900

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1900

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val
 1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
 20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp
 35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val
 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser
 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg
 85

<210> 1901

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1901

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val
 1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
 20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp
 35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val
 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser
 65 70 75 80

35

40

45

Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val
 50 55 60
 Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn
 65 70 75 80
 Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys
 85 90 95
 Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile
 100 105 110
 Thr Met Pro Thr Gln
 115

<210> 1904

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1904

Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro
 1 5 10 15
 Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser
 20 25 30
 Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro
 35 40 45
 Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val
 50 55 60
 Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn
 65 70 75 80
 Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys
 85 90 95
 Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile
 100 105 110
 Thr Met Pro Thr Gln
 115

<210> 1905

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

1	5	10	15
Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr	20	25	30
Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser	35	40	45
Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser	50	55	60
Phe Leu Ile Ser Val Val Arg Ile Pro Arg Ile Ile Val Met Tyr Met	65	70	75
Gln Asn Ala Leu Lys Glu Gln Gln His Gly Ala Leu Ser Arg Tyr Leu	85	90	95
Phe Arg Cys Cys Tyr Cys Cys Phe Trp Cys Leu Asp Lys Tyr Leu Leu	100	105	110
His Leu Asn Gln Asn Ala Tyr Thr Thr Thr Ala Ile Asn Gly Thr Asp	115	120	125
Phe Cys Thr Ser Ala Lys Asp Ala Phe Lys Ile Leu Ser Lys Asn Ser	130	135	140
Ser His Phe Thr Ser Ile Asn Cys Phe Gly Asp Phe Ile Ile Phe Leu	145	150	155
Gly Lys Val Leu Val Val Cys Phe Thr Val Phe Gly Gly Leu Met Ala	165	170	175
Phe Asn Tyr Asn Arg Ala Phe Gln Val Trp Ala Val Pro Leu Leu Leu	180	185	190
Val Ala Phe Phe Ala Tyr Leu Val Ala His Ser Phe Leu Ser Val Phe	195	200	205
Glu Thr Val Leu Asp Ala Leu Phe Leu Cys Phe Ala Val Asp Leu Glu	210	215	220
Thr Asn Asp Gly Ser Ser Glu Lys Pro Tyr Phe Met Asp Gln Glu Phe	225	230	235
Leu Ser Phe Val Lys Arg Ser Asn Lys Leu Asn Asn Ala Arg Ala Gln	245	250	255
Gln Asp Lys His Ser Leu Arg Asn Glu Glu Gly Thr Glu Leu Gln Ala	260	265	270
Ile Val Arg	275		

<210> 1912
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (133)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1912

Met	Ala	Cys	Ile	Leu	Lys	Arg	Lys	Ser	Val	Ile	Ala	Val	Ser	Phe	Ile
1				5					10					15	
Ala	Ala	Phe	Leu	Phe	Leu	Leu	Val	Val	Arg	Leu	Val	Asn	Glu	Val	Asn
			20					25					30		
Phe	Pro	Leu	Leu	Leu	Asn	Cys	Phe	Gly	Gln	Pro	Gly	Thr	Lys	Trp	Ile
		35					40					45			
Pro	Phe	Ser	Tyr	Thr	Tyr	Arg	Arg	Pro	Leu	Arg	Thr	His	Tyr	Gly	Tyr
	50					55					60				
Ile	Asn	Val	Lys	Thr	Gln	Glu	Pro	Leu	Gln	Leu	Asp	Cys	Asp	Leu	Cys
65					70					75					80
Ala	Ile	Val	Ser	Asn	Ser	Gly	Gln	Met	Val	Gly	Gln	Lys	Val	Gly	Asn
				85					90					95	
Glu	Ile	Asp	Arg	Ser	Ser	Cys	Ile	Trp	Arg	Met	Asn	Asn	Ala	Pro	Thr
			100					105					110		
Lys	Gly	Tyr	Glu	Glu	Asp	Val	Gly	Arg	Met	Thr	Met	Ile	Arg	Val	Val
		115					120					125			
Pro	Ile	Pro	Ala	Xaa	Leu	Phe	Cys								
	130					135									

<210> 1913
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1913

Val	Phe	Thr	Ser	Ala	Lys	Tyr	Tyr	Gly	Glu	Leu	Ser	Leu	Lys	Cys	Ala
1				5					10					15	
Ile	Leu	Asp	Lys	Gly	Leu	Leu	Pro	Thr	Leu	Phe	Cys	Asn	Phe	Asp	Thr
			20					25					30		
Ser	Ile	Phe	Thr	Pro	Ile	Asn	Ile	Thr	Lys	Pro	Gln	Phe	Tyr	Arg	Trp
		35					40					45			
Lys	Glu	Leu	Leu	Phe	Phe	Cys	Cys	Ser	Leu	Met	Gln	Phe	Leu	Ile	Leu
	50					55					60				

<210> 1914
 <211> 305

<212> PRT
<213> Homo sapiens

<400> 1914

Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile
1 5 10 15

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn
20 25 30

Phe Pro Leu Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile
35 40 45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr
50 55 60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys
65 70 75 80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn
85 90 95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr
100 105 110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val
115 120 125

Ser His Thr Ser Val Pro Leu Leu Leu Lys Asn Pro Asp Tyr Phe Phe
130 135 140

Lys Glu Ala Asn Thr Thr Ile Tyr Val Ile Trp Gly Pro Phe Arg Asn
145 150 155 160

Met Arg Lys Asp Gly Asn Gly Ile Val Tyr Asn Met Leu Lys Lys Thr
165 170 175

Val Gly Ile Tyr Pro Asn Ala Gln Ile Tyr Val Thr Thr Glu Lys Arg
180 185 190

Met Ser Tyr Cys Asp Gly Val Phe Lys Lys Glu Thr Gly Lys Asp Arg
195 200 205

Val Gln Ser Gly Ser Tyr Leu Ser Thr Gly Trp Phe Thr Phe Ile Leu
210 215 220

Ala Met Asp Ala Cys Tyr Gly Ile His Val Tyr Gly Met Ile Asn Asp
225 230 235 240

Thr Tyr Cys Lys Thr Glu Gly Tyr Arg Lys Val Pro Tyr His Tyr Tyr
245 250 255

Glu Gln Gly Arg Asp Glu Cys Asp Glu Tyr Phe Leu His Glu His Ala
260 265 270

Pro Tyr Gly Gly His Arg Phe Ile Thr Glu Lys Lys Val Phe Ala Lys
275 280 285

Trp Ala Lys Lys His Arg Ile Ile Phe Thr His Pro Asn Trp Thr Leu
290 295 300

<220>
 <221> SITE
 <222> (298)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (300)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (301)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1917
 Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val
 1 5 10 15
 Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr
 20 25 30
 Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val
 35 40 45
 Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala
 50 55 60
 Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp
 65 70 75 80
 Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu
 85 90 95
 Arg Gly Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile
 100 105 110
 Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Cys Val Ala Ser
 115 120 125
 Asn Ile Tyr Gly Thr Val Asn Asn Thr Val Thr Leu Arg Val Ile Phe
 130 135 140
 Thr Ser Gly Asp Met Gly Val Tyr Tyr Met Val Val Cys Leu Val Ala
 145 150 155 160
 Phe Thr Ile Val Met Val Leu Asn Ile Thr Arg Leu Cys Met Met Ser
 165 170 175
 Ser His Leu Lys Lys Thr Glu Lys Ala Ile Asn Glu Phe Phe Arg Thr
 180 185 190
 Glu Gly Ala Glu Lys Leu Gln Lys Ala Phe Glu Ile Ala Lys Arg Ile
 195 200 205
 Pro Ile Ile Thr Ser Ala Lys Thr Leu Glu Leu Ala Lys Val Thr Gln
 210 215 220
 Phe Lys Thr Met Glu Phe Ala Arg Tyr Ile Glu Glu Leu Ala Arg Ser
 225 230 235 240

Val Pro Leu Pro Pro Leu Ile Met Xaa Cys Arg Thr Ile Met Glu Glu
245 250 255

Xaa Met Glu Val Val Gly Leu Glu Glu Gln Gly Gln Asn Phe Val Arg
260 265 270

His Thr Pro Glu Gly Gln Glu Ala Ala Asp Arg Asp Glu Val Tyr Thr
275 280 285

Ile Pro Asn Ser Leu Lys Arg Ser Asp Xaa Pro Xaa Xaa Val Leu Gly
290 295 300

Arg Leu Ile Ala Ala Arg Ala Thr Ser Ala Asn Cys His Gln Gly Val
305 310 315 320

Ser Ser Pro Ala Val Gln Lys Arg Ala Cys Arg
325 330

<210> 1918
<211> 77
<212> PRT
<213> Homo sapiens

<400> 1918
Val Gly Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro
1 5 10 15

Gly Gly Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys
20 25 30

Arg Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr
35 40 45

Ala Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln
50 55 60

Gly Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
65 70 75

<210> 1919
<211> 91
<212> PRT
<213> Homo sapiens

<400> 1919
Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
1 5 10 15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly
20 25 30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met
35 40 45

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu
1241

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50 55 60
 Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro
 65 70 75 80
 Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
 85 90

<210> 1920
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1920
 Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
 1 5 10 15
 Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly
 20 25 30
 Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met
 35 40 45
 Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu
 50 55 60
 Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro
 65 70 75 80
 Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
 85 90

<210> 1921
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1921
 Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
 1 5 10 15
 Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
 20 25 30
 Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp
 35 40 45
 Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
 50 55 60
 Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala
 65 70 75 80
 Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr
 85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser
 100 105

<210> 1922
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1922
 Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
 1 5 10 15
 Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
 20 25 30
 Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp
 35 40 45
 Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
 50 55 60
 Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala
 65 70 75 80
 Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr
 85 90 95
 Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser
 100 105

<210> 1923
 <211> 81
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1923
 Ser Phe Leu Phe Phe Phe Phe Phe Phe Glu Thr Gly Phe Arg Ser
 1 5 10 15
 Val Phe Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Xaa Leu Pro Pro
 20 25 30
 Arg Phe Lys Lys Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr
 35 40 45
 Arg His Ala Leu Pro His Pro Val Thr Phe Phe Cys Val Phe Leu Val
 50 55 60
 Glu Met Ala Phe Ala Met Leu Ala Met Ala Gly Leu Lys Leu Leu Ala
 65 70 75 80

Ser

<210> 1924

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1924

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
20 25 30

Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp
35 40 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
50 55 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala
65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr
85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser
100 105

<210> 1925

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1925

Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu
1 5 10 15

Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn
20 25 30

Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu
35 40 45

Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Xaa His Val Arg Leu Val

50 55 60
 Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln
 65 70 75 80
 Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His
 85 90 95
 Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Xaa His
 100 105 110
 Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln
 115 120 125
 Lys Thr His Pro Leu Ala Trp Ser
 130 135

<210> 1926

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1926

Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu
 1 5 10 15

Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn
 20 25 30

Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu
 35 40 45

Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Leu His Val Arg Leu Val
 50 55 60

Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln
 65 70 75 80

Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His
 85 90 95

Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Ser His
 100 105 110

Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln
 115 120 125

Lys Thr His Pro Leu Ala Trp Ser
 130 135

<210> 1927

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1927

Met Leu Leu Gly Gly Arg Leu Leu Thr Gly Leu Ala Cys Gly Val Ala
 1 5 10 15
 Ser Leu Val Ala Pro Val Ser Val Pro Ser Leu Glu Cys Pro Val Ser
 20 25 30
 Arg Pro Glu Thr Glu Gly Glu Trp Asp Lys Pro Leu Pro Arg Pro Gly
 35 40 45
 Gly Ala Ala Pro Pro Gly Gly Thr Phe Trp Val Pro Gly Leu Lys Ser
 50 55 60
 Leu Arg Tyr Leu Ala Val Pro Pro Val Asp Pro Gly Lys Asp Pro Thr
 65 70 75 80
 Val Leu Ser Ile Leu His
 85

<210> 1928
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1928
 Met Leu Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala
 1 5 10 15
 Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile
 20 25 30
 Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu
 35 40 45
 Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu
 50 55 60
 Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser
 65 70 75 80
 Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val
 85 90 95
 Ser Asn Ser

<210> 1929
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1929
 Met Leu Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala
 1 5 10 15
 Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile
 20 25 30

Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu
35 40 45

Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu
50 55 60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser
65 70 75 80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val
85 90 95

Ser Asn Ser

<210> 1930
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1930
Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala
1 5 10 15

Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Val Glu Met Gly Phe
20 25 30

Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu
35 40 45

Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His
50 55 60

Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro
65 70 75 80

Arg Val Ser Gly

<210> 1931
<211> 178
<212> PRT
<213> Homo sapiens

<400> 1931
Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met
1 5 10 15

Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly
20 25 30

Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn
35 40 45

Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val
50 55 60

Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu
65 70 75 80

Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala
85 90 95

Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly
100 105 110

Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His
115 120 125

Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala
130 135 140

Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu
145 150 155 160

Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly
165 170 175

Ala Ser

<210> 1932
<211> 468
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1932
Met Asn Ser Gln Asn Ser Gly Phe Thr Gln Arg Arg Arg Met Ala Leu
1 5 10 15

Gly Ile Xaa Ile Leu Leu Leu Val Asp Val Ile Trp Val Ala Ser Ser
20 25 30

Glu Leu Thr Ser Tyr Val Phe Thr Gln Tyr Asn Lys Pro Phe Phe Ser
35 40 45

Thr Phe Ala Lys Thr Ser Met Phe Val Leu Tyr Leu Leu Gly Phe Ile
50 55 60

Ile	Trp	Lys	Pro	Trp	Arg	Gln	Gln	Cys	Thr	Arg	Gly	Leu	Arg	Gly	Lys	
65					70					75					80	
His	Ala	Ala	Phe	Phe	Ala	Asp	Ala	Glu	Gly	Tyr	Phe	Ala	Ala	Cys	Thr	
			85						90					95		
Thr	Asp	Thr	Thr	Met	Asn	Ser	Ser	Leu	Ser	Glu	Pro	Leu	Tyr	Val	Pro	
			100					105					110			
Val	Lys	Phe	His	Asp	Leu	Pro	Ser	Glu	Lys	Pro	Glu	Xaa	Thr	Asn	Ile	
		115					120					125				
Asp	Thr	Glu	Lys	Thr	Pro	Lys	Lys	Ser	Arg	Val	Arg	Phe	Ser	Asn	Ile	
	130					135					140					
Met	Glu	Ile	Arg	Gln	Leu	Pro	Ser	Ser	His	Ala	Leu	Glu	Ala	Lys	Leu	
145					150					155					160	
Ser	Arg	Met	Ser	Tyr	Pro	Val	Lys	Glu	Gln	Glu	Ser	Ile	Leu	Lys	Thr	
				165					170					175		
Val	Gly	Lys	Leu	Thr	Ala	Thr	Gln	Val	Ala	Lys	Ile	Ser	Phe	Phe	Phe	
			180					185					190			
Cys	Phe	Val	Trp	Phe	Leu	Ala	Asn	Leu	Ser	Tyr	Gln	Glu	Ala	Leu	Ser	
		195					200					205				
Asp	Thr	Gln	Val	Ala	Ile	Val	Asn	Ile	Leu	Ser	Ser	Thr	Ser	Gly	Leu	
		210					215					220				
Phe	Thr	Leu	Ile	Leu	Ala	Ala	Val	Phe	Pro	Ser	Asn	Ser	Gly	Asp	Arg	
225					230					235					240	
Phe	Thr	Leu	Ser	Lys	Leu	Leu	Ala	Val	Ile	Leu	Ser	Ile	Gly	Gly	Val	
				245					250					255		
Val	Leu	Val	Asn	Leu	Ala	Gly	Ser	Glu	Lys	Pro	Ala	Gly	Arg	Asp	Thr	
			260					265					270			
Val	Gly	Ser	Ile	Trp	Ser	Leu	Ala	Gly	Ala	Met	Leu	Tyr	Ala	Val	Tyr	
		275					280					285				
Ile	Val	Met	Ile	Lys	Arg	Lys	Val	Asp	Arg	Glu	Asp	Lys	Leu	Asp	Ile	
		290				295					300					
Pro	Met	Phe	Phe	Gly	Phe	Val	Gly	Leu	Phe	Asn	Leu	Leu	Leu	Leu	Trp	
305					310					315					320	
Pro	Gly	Phe	Phe	Leu	Leu	His	Tyr	Thr	Gly	Phe	Glu	Asp	Phe	Glu	Phe	
				325					330					335		
Pro	Asn	Lys	Val	Val	Leu	Met	Cys	Ile	Ile	Ile	Asn	Gly	Leu	Ile	Gly	
			340					345					350			
Thr	Val	Leu	Ser	Glu	Phe	Leu	Trp	Leu	Trp	Gly	Cys	Phe	Leu	Thr	Ser	
		355					360					365				
Ser	Leu	Ile	Gly	Thr	Leu	Ala	Leu	Ser	Leu	Thr	Ile	Pro	Leu	Ser	Ile	
		370				375					380					

Ala Ser

<210> 1934
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1934
Met Leu Val Ala Trp Cys Leu Ala Pro Gly Asp Leu Leu Leu Leu Val
1 5 10 15
Ile Ile Thr Leu Pro Arg Lys Glu Val Thr Gly Ser Met Ser Thr Val
20 25 30
Cys Gln Cys Glu Ala Gln Pro Ala Met Leu Pro Lys Gly His Phe Thr
35 40 45
His His Ser Pro Lys Ala Ala Arg Lys Ala Gln Glu Gly Thr Arg Lys
50 55 60
Ala Arg Trp Val Ala Leu Glu Asp Ser Ala Pro Phe His Pro Ser Pro
65 70 75 80
Gly Trp Gly Leu Ile Leu Gln Leu His Pro Gln Pro Met Asn Xaa Ser
85 90 95
Gln Ser Ala Trp Lys His Cys Cys Trp Lys Asn Cys Glu Glu Pro Xaa
100 105 110
Glu Gly Lys Lys
115

<210> 1935
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1935
Lys Thr Pro His Ser Trp Val Ile His Ala Gly Glu Ala Ser Cys His
1 5 10 15

Val Glu Arg Thr Leu Lys Gln Ser Tyr Gly Ala Ala His Met Arg Gly
20 25 30

Thr Glu Ala Pro Ser His Gln Pro Cys Glu Pro Pro Trp Lys Trp Ser
35 40 45

Leu Gln His Gln Ser Ser Phe Gln Met Ile Ala Ala Pro Asn Thr Ile
50 55 60

Leu Thr Ser Ile Xaa Arg Thr Ser Ala Ser
65 70

<210> 1936
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1936
Met Lys Arg Glu Gly Arg Cys Val Leu His Met His Pro Ser Ser Pro
1 5 10 15

Pro Ser Arg Leu Ser Phe Phe Leu Phe Leu Arg Gln Ser Leu Ala Leu
20 25 30

Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala Gln Arg Asn Leu
35 40 45

Arg Leu Leu Gly Ser Arg Asp Ser Pro Ala Ser Ala Ser Cys Cys Pro
50 55 60

Pro Ser Ser Leu Ser Arg Arg Trp Arg Trp Arg Glu Val Pro Glu Gly
65 70 75 80

Leu Trp Gly Leu Xaa Trp Val Xaa Leu Cys Ser Leu Ser Ala Xaa Trp
85 90 95

Thr Ala Leu Lys Gly Ser Ser Pro Pro Phe Xaa Ala Lys Gln Leu Gly
100 105 110

His His Arg Asn Gly Ile Asn Leu Ala Glu Xaa Ser Leu Pro Lys
115 120 125

<210> 1937

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1937

Leu Met Pro Val Ile Pro Ala Ile Trp Glu Thr Glu Ala Gly Gly Leu
1 5 10 15

Leu Glu Ala Arg Ser Leu Arg Gln Pro Gly Gln His Ser Glu Thr Pro
20 25 30

Ser Leu Gln Glu Thr Phe Lys Asn Lys Asn Ser Ser
35 40

<210> 1938

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1938

Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Leu
1 5 10 15

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val
20 25 30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala
35 40 45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg
50 55 60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly
65 70 75 80

Gln Asp Gly Leu Asp Leu Leu Thr Ser
85

<210> 1939

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1939

Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Leu
1 5 10 15

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val
20 25 30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala
35 40 45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg
50 55 60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly
65 70 75 80

Gln Asp Gly Leu Asp Leu Leu Thr Ser
85

<210> 1940

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1940

Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp
1 5 10 15

Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu
20 25 30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
35 40 45

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys
50 55 60

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn

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65		70		75		80
Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg						
	85			90		95
Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala						
	100		105		110	
Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu						
	115		120		125	
Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp						
	130		135		140	
Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Pro Ser Xaa Ala						
	145		150		155	160
Asp Ala Pro Glu Val Gln Arg Gly Leu Gln Ala Cys Leu Leu Ser Pro						
	165		170		175	
Lys Leu Pro Leu Arg Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala						
	180		185		190	
Ser Pro Asp Gln Asn Gly Asp Thr Trp Asp Leu Lys Lys Phe Ser Xaa						
	195		200		205	
Thr Pro Pro Leu Gly Lys Ala Trp Glu Xaa Leu Leu Xaa Gly Thr						
	210		215		220	

<210> 1941
 <211> 169
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1941
 Ser Pro Lys Xaa Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val
 1 5 10 15

Leu Xaa Ala Arg Thr Lys Arg Xaa His Leu Val Leu Lys Ser Phe Lys
 20 25 30

Asp Thr Pro Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val
 35 40 45

Arg Thr Pro Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val
 50 55 60

Ser Gly Val Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp
 65 70 75 80

Leu Lys Val Ala Thr Ser Leu Leu Leu Leu Leu Phe Ala Ile Phe Met
 85 90 95

Gly Leu Arg Ala Ser Lys Cys Arg Ala Ala Leu Xaa Ser Cys Thr Gly
 100 105 110

Cys Ser Pro Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp
 115 120 125

Thr Gln Leu Val Ser Ala Cys Gln Asn Ala Cys Pro Val Ser Arg Leu
 130 135 140

Ser Gln Pro Arg Gly Glu Leu Pro Phe Thr Asp Ser Ser Gln Gly Trp
 145 150 155 160

His Arg Pro Gln Glu Cys Arg Leu Val
 165

<210> 1942
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 1942
 Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp
 1 5 10 15

Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu
 20 25 30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
 35 40 45

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys
 50 55 60

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn
 65 70 75 80

Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg
 85 90 95

Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala
 100 105 110

Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu

Gly Pro Glu Trp Val Gly Tyr Ile Ser Tyr Thr Gly Val Ala Asp Tyr
65 70 75 80
Asn Pro Ser Leu Arg Gly Arg Leu Thr Ile Ser Leu Gly Glu Ser Asn
85 90 95
Ser Phe Ser Leu Thr Leu Thr Ser Met Thr Ala Ala Asp Ala Val Val
100 105 110
Tyr Tyr Cys Ala Thr Asp
115

<210> 1944
<211> 174
<212> PRT
<213> Homo sapiens

<400> 1944
Lys Gly Val Phe Tyr Phe Phe Ile Phe Tyr Leu Pro Leu Phe Ser Trp
1 5 10 15
Leu Cys Ser Arg Val Cys Val Phe Ala Cys Leu Leu Ser Cys Ser Phe
20 25 30
Phe Phe Trp Met Lys Thr Pro Ala Phe Pro Asp Ser Pro Pro Ser Ser
35 40 45
Val Leu Gln Phe Ser Glu Lys Ser Trp Asp Met Trp Glu Gly Ala Trp
50 55 60
Glu Leu Gly Ser Leu Arg Leu Pro Gly Arg Gln Phe Arg Leu Cys Arg
65 70 75 80
Lys Glu Gln Ser Pro Trp Glu Ala Leu Gly Glu Gly Gly Ala Ala Gly
85 90 95
Pro Ala Arg Met Val Leu Pro Ala Thr Gly Gly Leu Arg Val Val Ser
100 105 110
Ala Pro Cys Ile Ser Pro Ser Leu Leu Thr Phe Leu Leu Cys Phe Pro
115 120 125
Pro Ser Val Cys Gln Arg Gly Gly Thr Gly Asn Arg Thr Ala Val Ala
130 135 140
Ala Leu Ser Leu Leu Ser Thr Val Tyr Ser Gly Leu Ser Gly Asp Ser
145 150 155 160
Arg Glu Pro Gly His Leu Ala Ala Val Arg Pro Leu Asn Leu
165 170

<210> 1945
<211> 162
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1946

Glu Glu Pro Gln Asp His Thr His Ser Pro Tyr Pro Pro Gln Asp Tyr
1 5 10 15

Arg Thr Phe Trp His Thr Leu Tyr Arg Val Leu Gly Phe Thr Pro Gln
20 25 30

Asn Asp Pro Thr Met Ser Thr His His Gln Asn Pro Ala Asn Gly Pro
35 40 45

Pro Leu Pro Pro Ser Pro Asp Ala Glu Met Xaa Met Gly Ser Trp Arg
50 55 60

Val Gly Ser Glu Met Lys Gly Thr Pro Gln Trp Ala Ala Gly Pro Ile
65 70 75 80

Phe Pro Lys Pro Cys His Tyr Leu Cys Glu Gly Gly Gln Val Ala Glu
85 90 95

Gly Ser Gly Cys Arg Leu Leu Tyr Pro Leu Cys Leu Lys His Pro Pro
100 105 110

His Arg Ala Leu Val Phe Thr Arg Phe Val Leu Asp Ser Leu Asn Gly
115 120 125

Asn Xaa Ile Pro Trp Leu Arg Ala Lys Thr Thr Thr Tyr Gln Cys Pro
130 135 140

Cys Pro Phe Gln Leu Thr Leu Ser Ser Leu Arg Ser Ser Leu Ser Leu
145 150 155 160

Trp Lys Gly His Pro Ser Gln Gly Arg Asn Ala Trp Ser
165 170

<210> 1947

<211> 407

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (357)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1947

Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile
1 5 10 15

Leu Phe Val Thr Pro Leu Leu Leu Leu Pro Leu Val Ile Leu Met Pro
20 25 30

Thr Thr Thr Leu Xaa Leu Pro Ile Phe Ala Ser Met Val Lys Thr Gly
 355 360 365

Val Ile Met Asn Ile Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn
 370 375 380

Thr Trp Gly Arg Ala Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala
 385 390 395 400

Asn Val Thr His Ile Glu Thr
 405

<210> 1948
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 1948
 Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile
 1 5 10 15

Leu Phe Val Thr Pro Leu Leu Leu Leu Pro Leu Val Ile Leu Met Pro
 20 25 30

Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu
 35 40 45

Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys
 50 55 60

Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg
 65 70 75 80

Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile
 85 90 95

Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile
 100 105 110

Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu
 115 120 125

Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile
 130 135 140

Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg Lys Arg
 145 150 155 160

Leu Cys

<210> 1949
 <211> 377
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (327)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1949

Met	Pro	Ala	Lys	Val	Cys	Val	Gln	Tyr	Met	Lys	Asp	Thr	Asn	Met	Leu
1				5					10					15	
Phe	Leu	Gly	Gly	Leu	Ile	Val	Ala	Val	Ala	Val	Glu	Arg	Trp	Asn	Leu
		20					25						30		
His	Lys	Arg	Ile	Ala	Leu	Arg	Thr	Leu	Leu	Trp	Val	Gly	Ala	Lys	Pro
		35					40					45			
Ala	Arg	Leu	Met	Leu	Gly	Phe	Met	Gly	Val	Thr	Ala	Leu	Leu	Ser	Met
	50					55					60				
Trp	Ile	Ser	Asn	Thr	Ala	Thr	Thr	Ala	Met	Met	Val	Pro	Ile	Val	Glu
65					70					75					80
Ala	Ile	Leu	Gln	Gln	Met	Glu	Ala	Thr	Ser	Ala	Ala	Thr	Glu	Ala	Gly
				85				90						95	
Leu	Glu	Leu	Val	Asp	Lys	Gly	Lys	Ala	Lys	Glu	Leu	Pro	Gly	Ser	Gln
			100					105					110		
Val	Ile	Phe	Glu	Gly	Pro	Thr	Leu	Gly	Gln	Gln	Glu	Asp	Gln	Glu	Arg
		115					120					125			
Lys	Arg	Leu	Cys	Lys	Ala	Met	Thr	Leu	Cys	Ile	Cys	Tyr	Ala	Ala	Ser
		130				135					140				
Ile	Gly	Gly	Thr	Ala	Thr	Leu	Thr	Gly	Thr	Gly	Pro	Asn	Val	Val	Leu
145					150					155					160
Leu	Gly	Gln	Met	Asn	Glu	Leu	Phe	Pro	Asp	Ser	Lys	Asp	Leu	Val	Asn
			165						170					175	
Phe	Ala	Ser	Trp	Phe	Ala	Phe	Ala	Phe	Pro	Asn	Met	Leu	Val	Met	Leu
			180					185					190		
Leu	Phe	Ala	Trp	Leu	Trp	Leu	Gln	Phe	Val	Tyr	Met	Arg	Phe	Lys	Tyr
		195				200						205			
Val	Ser	Asp	Ala	Thr	Val	Ala	Ile	Phe	Val	Ala	Thr	Leu	Leu	Phe	Ile
	210					215					220				
Val	Pro	Ser	Gln	Lys	Pro	Lys	Phe	Asn	Phe	Arg	Ser	Gln	Thr	Glu	Glu
225					230					235					240
Glu	Arg	Lys	Thr	Pro	Phe	Tyr	Pro	Pro	Pro	Leu	Leu	Asp	Trp	Lys	Val
				245					250					255	
Thr	Gln	Glu	Lys	Val	Pro	Trp	Gly	Ile	Val	Leu	Leu	Leu	Gly	Gly	Gly
			260					265					270		
Phe	Ala	Leu	Ala	Lys	Gly	Ser	Glu	Ala	Ser	Gly	Leu	Ser	Val	Trp	Met
		275					280					285			

100

105

110

Arg Leu Cys Pro
115

<210> 1954

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1954

Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys
1 5 10 15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro
20 25 30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu
35 40 45

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly
50 55 60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys
65 70 75 80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp
85 90 95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln
100 105 110

Arg Leu Cys Pro
115

<210> 1955

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1955

Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys
1 5 10 15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro
20 25 30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu
35 40 45

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly
50 55 60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys
65 70 75 80

1267

0033345-041201

<210> 1958
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 1958
 Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
 1 5 10 15

Thr Cys

<210> 1959
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 1959
 Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
 1 5 10 15

Thr Cys

<210> 1960
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1960
 Met Ser Met Ala Met Gly Ser Xaa Thr Leu Leu Leu Gly Trp Gly Pro
 1 5 10 15

Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu
 20 25 30

Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr
 35 40

<210> 1961
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1961
 Ala Glu His His Gln Leu Ser Gln Val Leu Val Thr Cys Leu Gly Thr

1 5 10 15
 Cys Met Glu Pro Glu Pro Leu Thr Pro His Pro Arg His Tyr Leu Gly
 20 25 30
 Asp Ala Gln Asp Lys Cys Ser Asn Asp Cys Met His Cys Leu Ser Ile
 35 40 45
 Gly Gln His Glu Leu Pro Ser Tyr Ser Cys Gln Pro Gly Arg Lys Arg
 50 55 60
 Leu Leu Pro His His Ser Gln Pro Ser Phe Pro Leu Ala Ser Thr
 65 70 75

<210> 1962

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1962

Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly Thr Gly
 1 5 10 15
 Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val Thr Phe
 20 25 30
 Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe
 35 40 45
 Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile
 50 55 60
 Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys Lys
 65 70 75 80
 Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Glu Lys Gln
 85 90 95
 Ala Arg Val Leu Ile Val Ile Ala Trp Ser Leu Ser Phe Leu Phe Ser
 100 105 110
 Ile Pro Thr Leu Ile Ile Phe Gly Lys Arg Thr Leu Ser Asn Gly Glu
 115 120 125
 Val Gln Cys Trp Ala Leu Trp Pro Asp Asp Ser Tyr Trp Thr Pro Tyr
 130 135 140
 Met Thr Ile Val Ala Phe Leu Val Tyr Phe Ile Pro Leu Thr Ile Ile
 145 150 155 160
 Ser Ile Met Tyr Gly Ile Val Ile Arg Thr Ile Trp Ile Lys Ser Lys
 165 170 175
 Thr Tyr Glu Thr Val Ile Ser Asn Cys Ser Asp Gly Lys Leu Cys Ser
 180 185 190
 Ser Tyr Asn Arg Gly Leu Ile Ser Lys Ala Lys Ile Lys Ala Ile Lys
 195 200 205

1270

090334-0404

Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
 50 55 60
 Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
 65 70 75 80
 Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu
 85 90 95
 Val Cys Pro Ser Val Arg Leu Xaa Gly Arg Pro Gly Pro Lys Trp Gly
 100 105 110
 Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp
 115 120 125
 Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
 130 135 140
 Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr
 145 150 155 160
 Leu

<210> 1965
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 1965
 Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu
 1 5 10 15
 Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly
 20 25 30
 Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp
 35 40 45
 Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
 50 55 60
 Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
 65 70 75 80
 Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu
 85 90 95
 Val Cys Pro Ser Val Arg Leu Ser Gly Arg Pro Gly Pro Lys Trp Gly
 100 105 110
 Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp
 115 120 125
 Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
 130 135 140

Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr
145 150 155 160

Leu

<210> 1966

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1966

Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu
1 5 10 15

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His
20 25 30

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Xaa Ala Ala Tyr Phe
35 40 45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val
50 55 60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala
65 70 75 80

Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser
85 90

<210> 1967

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1967

Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu
1 5 10 15

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His
20 25 30

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Ser Ala Ala Tyr Phe
35 40 45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val
50 55 60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala
65 70 75 80

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1969

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser
1 5 10 15

Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe
20 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala
35 40 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
50 55 60

Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Xaa Glu
65 70 75 80

Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Ser Val Gly Glu
85 90 95

Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp
100 105 110

Phe Pro Val Val Pro Thr Ala Thr Arg Val Ala Ile Val Thr Phe Ser
115 120 125

Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg
130 135 140

Ala Arg Gln His Lys Cys Ala Leu Leu Leu Gln Glu Ile Pro Ala Ile
145 150 155 160

Ser Tyr Arg Gly Xaa Gly Thr Tyr Thr Lys Gly Ala Phe Gln Gln Ala
165 170 175

Ala Gln Ile Leu Leu His Ala Arg Glu Asn Ser Thr Lys Val Val Phe
180 185 190

Leu Ile Thr Asp Gly Tyr Ser Lys Gly Glu Thr Leu Ala Gln Leu Gln
195 200 205

Arg His Cys Glu Ile Gln Glu Trp Arg Ser Ser Leu Leu Ala Tyr Gly
210 215 220

Lys Gly Thr Phe Glu Ser
225 230

<210> 1970

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1970

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser
1 5 10 15

Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe

1275

09033245-041001

Parameter	Unit	Value
Temperature	°C	25.0
Pressure	atm	1.0
Flow rate	L/min	1.0
Sample concentration	mg/mL	0.1
Sample volume	μL	1.0
Injection volume	μL	1.0
Column	mm	150 × 4.6
Mobile phase		Water:Acetonitrile (90:10)
Detection		UV-Vis (254 nm)
Integration		Chromatogram
Peak area	μg	1.2
Retention time	min	12.5
Standard deviation	μg	0.1
Correlation coefficient		0.999
Linearity		0.999
Limit of detection	μg	0.05
Limit of quantification	μg	0.1
Recovery	%	100
Stability		0.999
Robustness		0.999
Specificity		0.999
Accuracy		0.999
Precision		0.999
Resolution		0.999
Baseline		0.999
Signal-to-noise ratio		0.999
Peak shape		0.999
Peak width	min	0.1
Peak height	μg	1.2
Peak area	μg	1.2
Peak volume	μL	1.0
Peak concentration	mg/mL	0.1
Peak retention time	min	12.5
Peak standard deviation	min	0.1
Peak correlation coefficient		0.999
Peak linearity		0.999
Peak limit of detection	μg	0.05
Peak limit of quantification	μg	0.1
Peak recovery	%	100
Peak stability		0.999
Peak robustness		0.999
Peak specificity		0.999
Peak accuracy		0.999
Peak precision		0.999
Peak resolution		0.999
Peak baseline		0.999
Peak signal-to-noise ratio		0.999
Peak peak shape		0.999
Peak peak width	min	0.1
Peak peak height	μg	1.2
Peak peak area	μg	1.2
Peak peak volume	μL	1.0
Peak peak concentration	mg/mL	0.1
Peak peak retention time	min	12.5
Peak peak standard deviation	min	0.1
Peak peak correlation coefficient		0.999
Peak peak linearity		0.999
Peak peak limit of detection	μg	0.05
Peak peak limit of quantification	μg	0.1
Peak peak recovery	%	100
Peak peak stability		0.999
Peak peak robustness		0.999
Peak peak specificity		0.999
Peak peak accuracy		0.999
Peak peak precision		0.999
Peak peak resolution		0.999
Peak peak baseline		0.999
Peak peak signal-to-noise ratio		0.999
Peak peak peak shape		0.999
Peak peak peak width	min	0.1
Peak peak peak height	μg	1.2
Peak peak peak area	μg	1.2
Peak peak peak volume	μL	1.0
Peak peak peak concentration	mg/mL	0.1
Peak peak peak retention time	min	12.5
Peak peak peak standard deviation	min	0.1
Peak peak peak correlation coefficient		0.999
Peak peak peak linearity		0.999
Peak peak peak limit of detection	μg	0.05
Peak peak peak limit of quantification	μg	0.1
Peak peak peak recovery	%	100
Peak peak peak stability		0.999
Peak peak peak robustness		0.999
Peak peak peak specificity		0.999
Peak peak peak accuracy		0.999
Peak peak peak precision		0.999
Peak peak peak resolution		0.999
Peak peak peak baseline		0.999
Peak peak peak signal-to-noise ratio		0.999
Peak peak peak peak shape		0.999
Peak peak peak peak width	min	0.1
Peak peak peak peak height	μg	1.2
Peak peak peak peak area	μg	1.2
Peak peak peak peak volume	μL	1.0
Peak peak peak peak concentration	mg/mL	0.1
Peak peak peak peak retention time	min	12.5
Peak peak peak peak standard deviation	min	0.1
Peak peak peak peak correlation coefficient		0.999
Peak peak peak peak linearity		0.999
Peak peak peak peak limit of detection	μg	0.05
Peak peak peak peak limit of quantification	μg	0.1
Peak peak peak peak recovery	%	100
Peak peak peak peak stability		0.999
Peak peak peak peak robustness		0.999
Peak peak peak peak specificity		0.999
Peak peak peak peak accuracy		0.999
Peak peak peak peak precision		0.999
Peak peak peak peak resolution		0.999
Peak peak peak peak baseline		0.999
Peak peak peak peak signal-to-noise ratio		0.999
Peak peak peak peak peak shape		0.999
Peak peak peak peak peak width	min	0.1
Peak peak peak peak peak height	μg	1.2
Peak peak peak peak peak area	μg	1.2
Peak peak peak peak peak volume	μL	1.0
Peak peak peak peak peak concentration	mg/mL	0.1
Peak peak peak peak peak retention time	min	12.5
Peak peak peak peak peak standard deviation	min	0.1
Peak peak peak peak peak correlation coefficient		0.999
Peak peak peak peak peak linearity		0.999
Peak peak peak peak peak limit of detection	μg	0.05
Peak peak peak peak peak		

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr
20 25 30

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe
35 40 45

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Phe Phe Val Tyr Ser
50 55 60

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser
65 70 75 80

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala
85 90 95

Gln Thr Phe

<211> 153

<212> PRT

<213> Hom

<400> 1973

Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser
1 5 10 15

Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu
20 25 30

Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn
35 40 45

Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu
50 55 60

Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu
65 70 75 80

Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met
85 90 95

Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His
100 105 110

Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe
115 120 125

Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys
130 135 140

Phe Ile Lys Phe Ala Ala Leu Cys Lys
145 150

<210> 1974
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 1974

Met	His	Thr	His	Thr	Leu	Ser	Leu	Val	Ser	Leu	Ser	Leu	Ser	His	Ser
1				5					10					15	
Phe	Leu	Leu	Ser	Ser	Gln	Val	Thr	Cys	Thr	Leu	Gly	Phe	Leu	Val	Glu
			20					25					30		
Ala	His	Leu	Pro	Pro	Leu	Arg	Gly	Val	Pro	Asp	Cys	Ile	His	His	Asn
		35					40					45			
Pro	Lys	Thr	Arg	Val	Gly	Gly	Asn	Trp	Arg	Glu	Gln	Asn	Thr	Asp	Leu
	50					55					60				
Ile	Leu	Val	Ser	Leu	Leu	Glu	Thr	Ser	Ser	Pro	Lys	Ala	Arg	Ser	Leu
	65				70					75					80
Lys	Thr	Asn	Leu	Leu	Lys	Thr	Cys	Leu	Leu	Lys	Val	Asn	Asp	Leu	Met
			85						90					95	
Thr	Asn	Leu	Pro	Lys	Ala	Gln	Phe	Leu	Phe	Trp	Cys	Val	Tyr	Ile	His
			100					105					110		
Leu	Gly	Val	Leu	Phe	Phe	Phe	Val	Met	Leu	Trp	Ile	Phe	Gln	Gly	Phe
		115					120					125			
Ile	Ser	Ile	His	Pro	Arg	Val	Leu	Leu	Ser	Tyr	Tyr	Gln	Gln	His	Lys
		130				135					140				
Phe	Ile	Lys	Phe	Ala	Ala	Leu	Cys	Lys							
		145			150										

<210> 1975
 <211> 129
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1975
 Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe
 1 5 10 15
 Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met
 20 25 30
 His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn
 35 40 45
 Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser
 50 55 60
 Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr
 65 70 75 80
 Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Gly Lys Gln Glu Pro
 85 90 95
 Gln Thr Xaa Ser Ser Pro Lys Pro Thr Xaa Arg Arg Glu Val Ser Arg
 100 105 110
 Asn Glu Leu Asn Pro Val Ile Pro Xaa Ala Xaa Asn Pro Phe Xaa Lys
 115 120 125

Lys

<210> 1976
 <211> 467
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (151)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (160)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1976
 Leu Gly Pro Ala Gly Leu Arg Arg Arg Thr Lys Arg Arg Lys Arg Gly
 1 5 10 15

Asp Asn Ser Thr Asp Thr Thr Gln Gly Asp Pro Leu Ser Ile His His

	20		25		30
Tyr Phe His Gly Tyr Leu Ala Gly Phe Ser Val Arg Ser Gly Arg Leu	35	40	45		
Glu Ser Arg Glu Val Ile Glu Cys Leu Tyr Ala Cys Arg Glu Gly Leu	50	55	60		
Asp Tyr Arg Asp Phe Glu Ser Leu Gly Lys Gly Met Lys Val His Val	65	70	75	80	
Asn Pro Ser Gln Ser Leu Leu Thr Leu Glu Gly Asp Asp Val Glu Thr	85	90	95		
Phe Asn His Ala Leu Gln His Val Ala Tyr Met Asn Thr Leu Arg Phe	100	105	110		
Ala Thr Pro Gly Val Arg Pro Leu Arg Leu Thr Thr Ala Val Lys Cys	115	120	125		
Phe Ser Glu Glu Ser Cys Val Ser Ile Pro Glu Val Glu Gly Tyr Val	130	135	140		
Val Val Leu Gln Pro Asp Xaa Pro Gln Ile Leu Leu Ser Gly Thr Xaa	145	150	155	160	
His Phe Ala Arg Pro Ala Val Asp Phe Glu Gly Thr Asn Gly Val Pro	165	170	175		
Leu Phe Pro Asp Leu Gln Ile Thr Cys Ser Ile Ser His Gln Val Glu	180	185	190		
Ala Lys Lys Asp Glu Ser Trp Gln Gly Thr Val Thr Asp Thr Arg Met	195	200	205		
Ser Asp Glu Ile Val His Asn Leu Asp Gly Cys Glu Ile Ser Leu Val	210	215	220		
Gly Asp Asp Leu Asp Pro Glu Arg Glu Ser Leu Leu Leu Asp Thr Thr	225	230	235	240	
Ser Leu Gln Gln Arg Gly Leu Glu Leu Thr Asn Thr Ser Ala Tyr Leu	245	250	255		
Thr Ile Ala Gly Val Glu Ser Ile Thr Val Tyr Glu Glu Ile Leu Arg	260	265	270		
Gln Ala Arg Tyr Arg Leu Arg His Gly Ala Ala Leu Tyr Thr Arg Lys	275	280	285		
Phe Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu	290	295	300		
Phe Ile Val Glu Val Asn Val Leu His Ser Met Asn Arg Val Ala His	305	310	315	320	
Pro Ser His Val Leu Ser Ser Gln Gln Phe Leu His Arg Gly His Gln	325	330	335		
Pro Pro Pro Glu Met Ala Gly His Ser Leu Ala Ser Ser His Arg Asn					

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340 345 350

Ser Met Ile Pro Ser Ala Ala Thr Leu Ile Ile Val Val Cys Val Gly
355 360 365

Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg Ile His Ser Leu
370 375 380

His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly Ala Ser Ser Asp
385 390 395 400

Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala Leu Thr Ile Ile
405 410 415

Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser Cys Val Thr Gly
420 425 430

Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser Asp Ser Glu Val
435 440 445

Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile Glu Thr Pro Pro
450 455 460

His Arg Tyr
465

<210> 1977
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1977
Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe
1 5 10 15

Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met
20 25 30

His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn
35 40 45

Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser
50 55 60

Arg Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly
 50 55 60
 Thr Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe
 65 70 75 80
 Glu Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile
 85 90 95
 Ser His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly
 100 105 110
 Leu Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln
 115 120 125
 Pro Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr
 130 135 140
 Val Cys
 145

<210> 1981
 <211> 109
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1981
 Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Cys His Cys Gln
 1 5 10 15
 Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser
 20 25 30
 Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met
 35 40 45
 Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn
 50 55 60
 Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
 65 70 75 80
 Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
 85 90 95
 Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro
 100 105

<210> 1982
 <211> 109

<212> PRT
<213> Homo sapiens

<400> 1982

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Cys His Cys Gln
1 5 10 15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser
20 25 30

Ser Val Arg Arg Ile Asn Tyr Val Phe Leu Ile Tyr Lys Lys Gly Met
35 40 45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn
50 55 60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
65 70 75 80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
85 90 95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro
100 105

<210> 1983

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1983

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Cys His Cys Gln
1 5 10 15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser
20 25 30

Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met
35 40 45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn
50 55 60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
65 70 75 80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
85 90 95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro
100 105

[illegible]

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<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1984
Gly Ala Cys Arg Gly Ser Ser Glu Pro Gly Ala Thr Pro Arg Pro Asp
  1          5          10          15

Gly Glu Pro Arg Pro Leu Pro Gly Leu His Cys Ala Xaa Gly Met Pro
          20          25          30

Thr Pro Leu Pro Xaa Ser Pro Leu Gly Leu Arg Ser Leu Arg Arg Val
          35          40          45

Gly Trp Pro Val Arg Lys Gly Arg Val Gly Arg Ala Trp Gly Trp Ala
  50          55          60

Gly Leu Cys Glu Glu Leu Gln Pro Gln Ala Pro Pro Cys His Glu Ser
  65          70          75          80

Lys Arg Gly Arg Gly Ala Val Ala His Asp Cys Asn Pro Ser Thr Leu
          85          90          95

Gly Gly Xaa Ser Gly Gln Ile Thr Arg Ser Gly Val
          100          105

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<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids
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1286

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20 25 30
His Leu Leu Ala Xaa Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val
35 40 45
Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val
50 55 60
Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys
65 70 75 80
Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro Ser Pro Trp
85 90 95
Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu Thr Asp Ile
100 105 110
Asn Glu Ala Tyr Val Glu Thr Leu Lys Val Gly Pro Ala Val Arg Arg
115 120 125
Leu Pro
130

<210> 1986
<211> 16
<212> PRT
<213> Homo sapiens

<400> 1986
Pro Ala Ser Gln Lys Ala Val Ser Ala Trp Arg Cys Pro Ala His Val
1 5 10 15

<210> 1987
<211> 130
<212> PRT
<213> Homo sapiens

<400> 1987
Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe
1 5 10 15

Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His
20 25 30

His Leu Leu Ala Cys Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val
35 40 45

Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val
50 55 60

Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys
65 70 75 80

Val Tyr Thr Arg Thr Gly Ser Gly Ala Val Arg Phe Cys Asp Arg Cys
 115 120 125

His Leu Ile Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met
 130 135 140

Cys Val Leu Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile
 145 150 155 160

Gly Phe Ser Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Xaa
 165 170 175

Leu Tyr Cys Leu Xaa Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys
 180 185 190

Tyr Trp Xaa Gly Glu Leu Pro Xaa Val Ala
 195 200

<210> 1989
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1989
 Lys Pro Asn Gly Lys Asn Ile Ser Phe His Ser Ser Tyr Gln Val Lys
 1 5 10 15

Gly Asn Ser Glu Asn Phe Leu Arg Val Phe Asn Ser Pro Thr Lys Ile
 20 25 30

Ile Asn His Ile Tyr Arg Ala Phe Leu Val Leu Lys Gly Ile Lys Leu
 35 40 45

His Leu Leu Leu Val Cys Val Cys Ile Cys Glu His Val Gln His Ile
 50 55 60

Tyr Thr Lys Phe Cys Tyr Ser Val Lys Ile Arg Ala Lys Asn Leu Lys
 65 70 75 80

Pro Leu Phe Asn Tyr Ala Phe Pro Leu Asn Ser Asn Leu Asn Ile Cys
 85 90 95

<210> 1990
 <211> 331
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (176)
 <223> Xaa equals any of the naturally occurring L-amino acids.

<400> 1990

Met Ala Leu Ser Gly Gly Leu Arg Cys Cys Arg Arg Val Leu Ser Trp
1 5 10 15

Val Pro Val Leu Val Ile Val Leu Val Val Leu Trp Ser Tyr Tyr Ala
20 25 30

Tyr Val Phe Glu Leu Cys Leu Val Thr Val Leu Ser Pro Ala Glu Lys
35 40 45

Val Ile Tyr Leu Ile Leu Tyr His Ala Ile Phe Val Phe Phe Thr Trp
50 55 60

Thr Tyr Trp Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys
65 70 75 80

Phe His Leu Ser Tyr Thr Asp Lys Glu Arg Tyr Glu Asn Glu Glu Arg
85 90 95

Pro Glu Val Gln Lys Gln Met Leu Val Asp Met Ala Lys Lys Leu Pro
100 105 110

Val Tyr Thr Arg Thr Gly Ser Gly Ala Val Arg Phe Cys Asp Arg Cys
115 120 125

His Leu Ile Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met
130 135 140

Cys Val Leu Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile
145 150 155 160

Gly Phe Ser Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Xaa
165 170 175

Leu Tyr Cys Leu Tyr Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys
180 185 190

Tyr Trp Arg Gly Glu Leu Pro Ser Val Arg Ser Lys Phe His Val Leu
195 200 205

Phe Leu Leu Phe Val Ala Cys Met Phe Phe Val Ser Leu Val Ile Leu
210 215 220

Phe Gly Tyr His Cys Trp Leu Val Ser Arg Asn Lys Thr Thr Leu Glu
225 230 235 240

Ala Phe Cys Thr Pro Val Phe Thr Ser Gly Pro Glu Lys Asn Gly Phe
245 250 255

Asn Leu Gly Phe Ile Lys Asn Ile Gln Gln Val Phe Gly Asp Lys Lys
260 265 270

Lys Phe Trp Leu Ile Pro Ile Gly Ser Ser Pro Gly Asp Gly His Ser
275 280 285

Phe Pro Met Arg Ser Met Asn Glu Ser Gln Asn Pro Leu Leu Ala Asn
290 295 300

Glu Glu Thr Trp Glu Asp Asn Glu Asp Asp Asn Gln Asp Tyr Pro Glu
305 310 315 320

145					150						155					160
Gly	Ala	Trp	Cys	Ala	Glu	Glu	Gln	Asp	Ala	Xaa	Pro	Trp	Phe	Gln	Val	
				165					170					175		
Asp	Ala	Gly	His	Pro	Thr	Arg	Phe	Leu	Gly	Gly	Ile	Thr	Gln	Gly	Lys	
			180					185					190			
Glu	Leu	Leu	Ser	Gly	Gly	Glu	Gly	Arg	Leu	Thr	Leu	Xaa	Gln	Glu	Val	
		195					200					205				
Gln	Xaa	Gly	Leu	Gly	Leu	Gly	Ser	Pro	Gly	Gly	Thr	Xaa	Asp	Leu	Ser	
	210					215					220					
Ser	Pro	Phe	Leu	Ala	Gly	Met	Met	Gly	Ser	His						
225					230					235						

<210> 1992

<212> PRT

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1992

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
20 25 30

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
50 55 60

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu
85 90 95

1292

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser
 115 120 125

Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg
 130 135 140

Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp
 145 150 155 160

Gly Ala Trp Cys Ala Glu Glu Gln Xaa Ala Asp Pro Trp Phe Gln Val
 165 170 175

Asp Ala Gly His Pro Thr Arg Phe Ser Gly Xaa Ile Thr Gln Gly Arg
 180 185 190

Asn Xaa Val Trp Arg
 195

<210> 1993
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 1993
 Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
 1 5 10 15

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
 20 25 30

Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro
 35 40 45

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
 50 55 60

Arg Ile Arg Val Ile Lys Lys Lys Lys Val Ile Met Lys Lys Arg Lys
 65 70 75 80

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu
 85 90 95

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu
 100 105 110

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser
 115 120 125

Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg
 130 135 140

Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp
 145 150 155 160

Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Asp Pro Trp Phe Gln Val
 165 170 175

Asp Ala Gly His Pro Thr Arg Phe Ser Gly Val Ile Thr Gln Gly Arg
 180 185 190

Asn Ser Val Trp Arg
 195

<210> 1994
 <211> 241
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (229)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (230)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1994
 Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1 5 10 15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
 20 25 30

Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140

Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu
 145 150 155 160

Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu

Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg
195 200 205

Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr
210 215 220

Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala
225 230 235 240

Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg
245 250 255

Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile
260 265 270

His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro
275 280 285

Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His
290 295 300

Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp
305 310 315 320

Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser
325 330 335

Ile Lys Glu Lys
340

<210> 1996
<211> 85
<212> PRT
<213> Homo sapiens

<400> 1996
Met Ser Pro Pro Pro Pro Leu Leu Leu Leu Leu Leu Ser Leu Ala
1 5 10 15

Leu Leu Gly Ala Arg Ala Arg Ala Glu Pro Ala Gly Ser Ala Val Pro
20 25 30

Ala Gln Ser Arg Pro Cys Val Asp Cys His Ala Phe Glu Phe Met Gln
35 40 45

Arg Ala Leu Gln Asp Leu Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg
50 55 60

Thr Glu Thr Leu Leu Leu Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys
65 70 75 80

Trp Pro Ala Gly His
85

<210> 1997

<400> 2000

Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His
1 5 10 15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val
20 25 30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr
35 40 45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala
50 55 60

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Lys Lys Lys
65 70 75 80

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
85 90 95

Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys
100 105

<210> 2001

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2001

Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu
1 5 10 15

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe
20 25 30

Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu
35 40 45

His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Xaa Tyr Ser
50 55 60

Asp Asn Ile Leu Val Ser Pro Ser Leu Tyr Leu
65 70 75

<210> 2002

<211> 75

<212> PRT

<213> Homo sapiens

<400> 2002

Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu
1 5 10 15

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe
 20 25 30
 Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu
 35 40 45
 His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Leu Tyr Ser
 50 55 60
 Asp Asn Ile Leu Phe Ser Pro Ser Leu Tyr Leu
 65 70 75

<210> 2003
 <211> 147
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2003
 Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
 1 5 10 15
 Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu
 20 25 30
 His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
 35 40 45
 Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser
 50 55 60
 Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu
 65 70 75 80
 Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu
 85 90 95
 Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro
 100 105 110
 Asn Ala Arg Leu Asp Ser Xaa Gln Leu Pro Gly Pro Pro Gly Phe Ser
 115 120 125
 Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr
 130 135 140
 Lys Leu Thr
 145

<210> 2004
 <211> 147

<212> PRT
<213> Homo sapiens

<400> 2004

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
1 5 10 15
Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu
20 25 30
His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
35 40 45
Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser
50 55 60
Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu
65 70 75 80
Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu
85 90 95
Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro
100 105 110
Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser
115 120 125
Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr
130 135 140
Lys Leu Thr
145

<210> 2005

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2005

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
1 5 10 15
Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu
20 25 30
His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
35 40 45
Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser
50 55 60
Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu
65 70 75 80
Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu
85 90 95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro
100 105 110

Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser
115 120 125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr
130 135 140

Lys Leu Thr
145

<210> 2006
<211> 127
<212> PRT
<213> Homo sapiens

<400> 2006
Gln Gly Tyr Phe Arg Met Asp Ser Ser Ala Thr Gln Phe His Ile Glu
1 5 10 15

Thr His Glu Asn Thr Ser Gly Leu Trp Ser Ile Trp Tyr Arg Asn His
20 25 30

Phe Asp Arg Ser Val Val Leu Asn Asp Val Phe Leu Ser Lys Glu Thr
35 40 45

Lys His Met Leu Lys Ile Leu Asn Phe Thr Gly Pro Leu Phe Leu Pro
50 55 60

Pro Gly Cys Trp Asn Ile Phe Ser Leu Lys Leu Ala Val Lys Asp Ile
65 70 75 80

Ala Ile Asn Leu Phe Thr Asn Val Phe Leu Thr Thr Asn Ile Gly Ala
85 90 95

Ile Phe Ala Ile Pro Leu Gln Ile Ser His Cys Leu Glu Thr Arg Val
100 105 110

Thr Val Gly Met Cys Glu Asn Asn Trp Ile Phe Lys Gln Cys Glu
115 120 125

<210> 2007
<211> 221
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2007

Lys	Gly	Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr
1				5					10					15	
Arg	Pro	Gly	Asp	Leu	Trp	Pro	Thr	Xaa	Xaa	Val	Cys	Val	Thr	Ser	Ser
			20					25					30		
Leu	Xaa	Cys	Thr	Leu	Glu	Asn	Gly	Val	Pro	Cys	Val	Ile	Gln	Glu	Ser
		35					40					45			
Ala	Pro	Val	His	Asn	Ser	Phe	Ile	Asp	Trp	Ser	Ala	Thr	Cys	Glu	Gly
		50				55					60				
Gln	Phe	Ser	Ser	Ala	Tyr	Cys	Pro	Leu	Glu	Leu	Asn	Asp	Tyr	Asn	Ala
65					70					75					80
Phe	Pro	Glu	Glu	Asn	Met	Asn	Tyr	Ala	Asn	Gly	Phe	Pro	Cys	Pro	Ala
				85					90					95	
Asp	Val	Gln	Thr	Asp	Phe	Ile	Asp	His	Asn	Ser	Gln	Ser	Thr	Trp	Asn
			100					105					110		
Thr	Pro	Pro	Asn	Met	Pro	Ala	Ala	Trp	Gly	His	Ala	Ser	Phe	Ile	Ser
			115				120					125			
Ser	Pro	Pro	Tyr	Leu	Thr	Ser	Thr	Arg	Ser	Leu	Ser	Pro	Met	Ser	Gly
			130			135					140				
Leu	Phe	Gly	Ser	Ile	Trp	Ala	Pro	Gln	Ser	Asp	Val	Tyr	Glu	Asn	Cys
145					150					155					160
Cys	Pro	Ile	Asn	Pro	Thr	Thr	Glu	His	Ser	Thr	His	Met	Glu	Asn	Gln
			165						170					175	
Ala	Val	Val	Cys	Lys	Glu	Tyr	Tyr	Pro	Gly	Phe	Asn	Pro	Phe	Arg	Ala
			180					185					190		
Tyr	Met	Asn	Leu	Asp	Ile	Trp	Thr	Thr	Thr	Ala	Asn	Arg	Asn	Ala	Asn
		195					200					205			
Phe	Pro	Leu	Ser	Arg	Asp	Ser	Ser	Tyr	Cys	Gly	Asn	Val			
		210				215					220				

<210> 2008
 <211> 166
 <212> PRT
 <213> Homo sapiens

<400> 2008

Met	Ala	Gly	Leu	Arg	Arg	Pro	Gln	Pro	Gly	Cys	Tyr	Cys	Arg	Thr	Ala
1				5					10					15	

090324 041001

Arg	His	Lys	Glu	Val	Ile	Val	Lys	Ala	Ile	Ser	Ala	Val	Leu	Leu	Leu	50	55	60	
Leu	Leu	Lys	His	Phe	Lys	Leu	Asn	His	Val	Tyr	Gln	Phe	Glu	Tyr	Met	65	70	75	80
Ala	Gln	His	Leu	Val	Phe	Ala	Asn	Cys	Ile	Pro	Leu	Ile	Leu	Lys	Phe	85	90	95	
Phe	Asn	Gln	Asn	Ile	Met	Ser	Tyr	Ile	Thr	Ala	Lys	Asn	Ser	Ile	Ser	100	105	110	
Val	Leu	Asp	Tyr	Pro	His	Cys	Val	Val	His	Glu	Leu	Pro	Glu	Leu	Thr	115	120	125	
Ala	Glu	Ser	Leu	Glu	Ala	Gly	Asp	Ser	Asn	Gln	Phe	Cys	Trp	Arg	Asn	130	135	140	
Leu	Phe	Ser	Cys	Ile	Asn	Leu	Leu	Arg	Ile	Leu	Asn	Lys	Leu	Thr	Lys	145	150	155	160
Trp	Lys	His	Ser	Arg	Thr	Met	Met	Leu	Val	Val	Phe	Lys	Ser	Ala	Pro	165	170	175	
Ile	Leu	Lys	Arg	Ala	Leu	Lys	Val	Lys	Gln	Ala	Met	Met	Gln	Leu	Tyr	180	185	190	
Val	Leu	Lys	Leu	Leu	Lys	Val	Gln	Thr	Lys	Tyr	Leu	Gly	Arg	Gln	Trp	195	200	205	
Arg	Lys	Ser	Asn	Met	Lys	Thr	Met	Ser	Ala	Ile	Tyr	Gln	Lys	Val	Arg	210	215	220	
His	Arg	Leu	Asn	Asp	Asp	Trp	Ala	Tyr	Gly	Asn	Asp	Leu	Asp	Ala	Arg	225	230	235	240
Pro	Trp	Asp	Phe	Gln	Ala	Glu	Glu	Cys	Ala	Leu	Arg	Ala	Asn	Ile	Glu	245	250	255	
Arg	Phe	Asn	Ala	Arg	Arg	Tyr	Asp	Arg	Ala	His	Ser	Asn	Pro	Asp	Phe	260	265	270	
Leu	Pro	Val	Asp	Asn	Cys	Leu	Gln	Ser	Val	Leu	Gly	Gln	Arg	Val	Asp	275	280	285	
Leu	Pro	Glu	Asp	Phe	Gln	Met	Asn	Tyr	Asp	Leu	Trp	Leu	Glu	Arg	Glu	290	295	300	
Val	Phe	Ser	Lys	Pro	Ile	Ser	Trp	Glu	Glu	Leu	Leu	Gln				305	310	315	

<210> 2012

<211> 957

<212> PRT

<213> Homo sapiens

<400> 2012

Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala Ser Pro

325										330					335				
Ala	Gln	Leu	Val	Arg	Glu	Lys	Tyr	Glu	Ser	Phe	Glu	Asp	Pro	Ala	Gly				
			340					345					350						
Thr	Ile	Asp	Lys	Phe	His	Tyr	Gly	Thr	His	Tyr	Ser	Asn	Ala	Ala	Gly				
		355					360					365							
Val	Met	His	Tyr	Leu	Ile	Arg	Val	Glu	Pro	Phe	Thr	Ser	Leu	His	Val				
	370					375					380								
Gln	Leu	Gln	Ser	Gly	Arg	Phe	Asp	Cys	Ser	Asp	Arg	Gln	Phe	His	Ser				
385					390					395					400				
Val	Ala	Ala	Ala	Trp	Gln	Ala	Arg	Leu	Glu	Ser	Pro	Ala	Asp	Val	Lys				
				405					410					415					
Glu	Leu	Ile	Pro	Glu	Phe	Phe	Tyr	Phe	Pro	Asp	Phe	Leu	Glu	Asn	Gln				
			420					425					430						
Asn	Gly	Phe	Asp	Leu	Gly	Cys	Leu	Gln	Leu	Thr	Asn	Glu	Lys	Val	Gly				
		435					440					445							
Asp	Val	Val	Leu	Pro	Pro	Trp	Ala	Ser	Ser	Pro	Glu	Asp	Phe	Ile	Gln				
	450					455					460								
Gln	His	Arg	Gln	Ala	Leu	Glu	Ser	Glu	Tyr	Val	Ser	Ala	His	Leu	His				
465					470					475					480				
Glu	Trp	Ile	Asp	Leu	Ile	Phe	Gly	Tyr	Lys	Gln	Arg	Gly	Pro	Ala	Ala				
			485						490					495					
Glu	Glu	Ala	Leu	Asn	Val	Phe	Tyr	Tyr	Cys	Thr	Tyr	Glu	Gly	Ala	Val				
			500					505					510						
Asp	Leu	Asp	His	Val	Thr	Asp	Glu	Arg	Glu	Arg	Lys	Ala	Leu	Glu	Gly				
		515					520					525							
Ile	Ile	Ser	Asn	Phe	Gly	Gln	Thr	Pro	Cys	Gln	Leu	Leu	Lys	Glu	Pro				
	530					535					540								
His	Pro	Thr	Arg	Leu	Ser	Ala	Glu	Glu	Ala	Ala	His	Arg	Leu	Ala	Arg				
545					550					555					560				
Leu	Asp	Thr	Asn	Ser	Pro	Ser	Ile	Phe	Gln	His	Leu	Asp	Glu	Leu	Lys				
			565						570					575					
Ala	Phe	Phe	Ala	Glu	Val	Val	Ser	Asp	Gly	Val	Pro	Leu	Val	Leu	Ala				
			580					585					590						
Leu	Val	Pro	His	Arg	Gln	Pro	His	Ser	Phe	Ile	Thr	Gln	Gly	Ser	Pro				
		595					600					605							
Asp	Leu	Leu	Val	Thr	Val	Ser	Ala	Ser	Gly	Leu	Leu	Gly	Thr	His	Ser				
	610					615					620								
Trp	Leu	Pro	Tyr	Asp	Arg	Asn	Ile	Ser	Asn	Tyr	Phe	Ser	Phe	Ser	Lys				
625					630					635					640				
Asp	Pro	Thr	Met	Gly	Ser	His	Lys	Thr	Gln	Arg	Leu	Leu	Ser	Gly	Pro				

645	650	655
Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro		
660	665	670
Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg		
675	680	685
Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His		
690	695	700
Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu		
705	710	715
Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His		
725	730	735
Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu		
740	745	750
Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu		
755	760	765
Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr		
770	775	780
Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr		
785	790	795
Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile		
805	810	815
Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr Tyr		
820	825	830
Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Pro		
835	840	845
Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val Leu		
850	855	860
Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu		
865	870	875
Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val		
885	890	895
Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly		
900	905	910
Lys Leu Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser		
915	920	925
Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val		
930	935	940
Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg		
945	950	955

65

70

75

<210> 2016

<211> 42

<212> PRT

<213> Homo sapiens

<400> 2016

Met Arg Leu Ser Lys Ser Asn Gln Val Gln Leu Phe Leu Tyr Phe Leu
 1 5 10 15

Leu Gln Trp Ser Leu Gly Ser Val Asn Ala Glu Thr Ser Leu Gln Ile
 20 25 30

Leu Leu Ala Cys Ser Phe Thr Thr Asp Ser
 35 40

<210> 2017

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2017

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser
 1 5 10 15

Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly
 20 25 30

Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln
 35 40 45

Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys
 50 55 60

Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys
 65 70 75 80

Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro
 85 90 95

Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu
 100 105 110

Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly
 115 120 125

Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala
 130 135 140

Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala
 145 150 155 160

Met Gln Thr Gly Ser Pro Ala Ser Thr
 165

1312

T02T0" 04400

420 425 430
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
 435 440 445
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg
 450 455 460
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val
 465 470 475 480
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys
 485 490 495
 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val
 500 505

<210> 2022
 <211> 264
 <212> PRT
 <213> Homo sapiens

<400> 2022
 Met Cys Leu Leu Gly Ala Leu Val Leu Leu Gly Leu Gly Val Leu Leu
 1 5 10 15
 Phe Ser Gly Gly Leu Ser Glu Ser Glu Thr Gly Pro Met Glu Glu Val
 20 25 30
 Glu Arg Gln Val Leu Pro Asp Pro Glu Val Leu Glu Ala Val Gly Asp
 35 40 45
 Arg Gln Asp Gly Leu Arg Glu Gln Leu Gln Ala Pro Val Pro Pro Asp
 50 55 60
 Ser Val Pro Ser Leu Gln Asn Met Gly Leu Leu Leu Asp Lys Leu Ala
 65 70 75 80
 Lys Glu Asn Gln Asp Ile Arg Leu Leu Gln Ala Gln Leu Gln Ala Gln
 85 90 95
 Lys Glu Glu Leu Gln Ser Leu Met His Gln Pro Lys Gly Leu Glu Glu
 100 105 110
 Glu Asn Ala Gln Leu Arg Gly Ala Leu Gln Gln Gly Glu Ala Phe Gln
 115 120 125
 Arg Ala Leu Glu Ser Glu Leu Gln Gln Leu Arg Ala Arg Leu Gln Gly
 130 135 140
 Leu Glu Ala Asp Cys Val Arg Gly Pro Asp Gly Val Cys Leu Ser Gly
 145 150 155 160
 Gly Arg Gly Pro Gln Gly Asp Lys Ala Ile Arg Glu Gln Gly Pro Arg
 165 170 175
 Glu Gln Glu Pro Glu Leu Ser Phe Leu Lys Gln Lys Glu Gln Leu Glu
 180 185 190

<210> 2027
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 2027
 Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg
 1 5 10 15
 Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
 20 25 30
 Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala
 35 40 45
 Ser Met Val Ser Arg Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
 50 55 60
 Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser
 65 70 75 80
 Lys Ser

<210> 2028
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 2028
 Met Val Thr Ala Ser Leu Leu Leu Leu Pro Ala Val Met Ala Ile Val
 1 5 10 15
 Phe Pro Ile Thr Trp Ala Val Gln Ser Gln Ser Trp Ala Ala Glu Phe
 20 25 30
 Asn Gly Ala Cys Phe Gln Val Leu His Gly Lys Leu Tyr Ser
 35 40 45

<210> 2029
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 2029
 Met Ser Arg Gly Asp Asn Cys Thr Asp Leu Leu Ala Leu Gly Ile Pro
 1 5 10 15
 Ser Ile Thr Gln Ala Trp Gly Leu Trp Val Leu Leu Gly Ala Val Thr
 20 25 30
 Leu Leu Phe Leu Ile Ser Leu Ala Ala His Leu Ser Gln Trp Thr Arg
 35 40 45
 Gly Arg Ser Arg Ser His Pro Gly Gln Gly Arg Ser Gly Glu Ser Val

50	55	60
Glu Glu Val Pro Leu Tyr Gly Asn Leu His Tyr Leu Gln Thr Gly Arg		
65	70	75 80
Leu Ser Gln Asp Pro Glu Pro Asp Gln Gln Asp Pro Thr Leu Gly Gly		
	85 90	95
Pro Ala Arg Ala Ala Glu Glu Val Met Cys Tyr Thr Ser Leu Gln Leu		
	100 105	110
Arg Pro Pro Gln Gly Arg Ile Pro Gly Pro Gly Thr Pro Val Lys Tyr		
	115 120	125
Ser Glu Val Val Leu Asp Ser Glu Pro Lys Ser Gln Ala Ser Gly Pro		
	130 135	140
Glu Pro Glu Leu Tyr Ala Ser Val Cys Ala Gln Thr Arg Arg Ala Arg		
145	150 155	160
Ala Ser Phe Pro Asp Gln Ala Tyr Ala Asn Ser Gln Pro Ala Ala Ser		
	165 170	175

<210> 2030

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2030

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
20 25 30

Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
35 40 45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
65 70 75 80

Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
85 90 95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
100 105 110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
115 120 125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
130 135 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys
165

<210> 2031
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids.

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2031
Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
20 25 30

Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
35 40 45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
65 70 75 80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
85 90 95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
100 105 110

Leu Pro Ala Pro Ser Xaa Leu Leu Xaa His Ala Ser Ala Pro Val Arg
115 120 125

Thr Val Cys Ala Leu Thr Trp
130 135

<210> 2032

<211> 168
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2032
 Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1 5 10 15
 Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
 20 25 30
 Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val
 35 40 45
 Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
 50 55 60
 Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65 70 75 80
 Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
 85 90 95
 Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
 100 105 110
 Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
 115 120 125
 Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
 130 135 140
 Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
 145 150 155 160
 Ser Arg Asn Gly Leu Val Gly Cys
 165

<210> 2033
 <211> 134
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2033
 Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1 5 10 15
 Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
 130 135 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
 145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys
 165

<210> 2035
 <211> 134
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2035
 Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
 20 25 30

Arg Ala Phe Leu Leu Arg Xaa Gly Phe Phe Ile Arg Arg Arg Met Tyr
 35 40 45

Pro Pro Pro Leu Ile Glu Glu Pro Ala Phe Asn Val Ser Tyr Thr Arg
 50 55 60

Gln Pro Pro Asn Pro Gly Pro Gly Ala Gln Gln Pro Gly Pro Pro Tyr
 65 70 75 80

Tyr Thr Asp Pro Gly Gly Pro Gly Met Asn Pro Val Gly Asn Ser Met
 85 90 95

Ala Met Ala Phe Gln Val Pro Pro Asn Ser Pro Gln Gly Ser Val Ala
 100 105 110

Cys Pro Pro Pro Pro Ala Tyr Cys Asn Thr Pro Pro Pro Pro Tyr Glu
 115 120 125

Gln Val Val Lys Ala Lys
 130

<210> 2036
 <211> 468
 <212> PRT
 <213> Homo sapiens

<400> 2036
 Met Gly Arg Gly Trp Gly Phe Leu Phe Gly Leu Leu Gly Ala Val Trp
 1 5 10 15

Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu His Glu Ile Lys
 340 345 350

Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys
 355 360 365

Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu His Phe Arg Asn
 370 375 380

Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys Cys Arg Leu Trp
 385 390 395 400

Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe
 405 410 415

Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu
 420 425 430

Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe Asn Ala Phe Gly
 435 440 445

Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu
 450 455 460

Gln Asn Ile His
 465

<210> 2037
 <211> 314
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (227)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2037
 Met Leu Leu Ala Gln Gly Leu Ile Leu His Phe Leu Gly Arg Ala Trp
 1 5 10 15

Thr Trp Pro Asp Ala Leu Asn Ile Glu Asn Ser Asp Ser Glu Ser Trp
 20 25 30

Thr Ser His Thr Val Lys Lys Phe Thr Ala Ser Phe Glu Ala Ser Leu
 35 40 45

Ser Gly Glu Arg Glu Phe Lys Thr Pro Thr Ile Ser Leu Lys Glu Thr
 50 55 60

Ile Gly Lys Tyr Ser Asp Asp His Glu Met Arg Asn Glu Val Tyr His
 65 70 75 80

Arg Lys Ile Ile Ser Trp Phe Gly Asp Ser Pro Leu Ala Leu Phe Gly
 85 90 95

Leu His Gln Leu Ile Glu Tyr Gly Lys Lys Ser Gly Lys Lys Ala Gly
 100 105 110

Asp Trp Tyr Gly Pro Ala Val Val Ala His Ile Leu Arg Lys Ala Val
115 120 125

Glu Glu Ala Arg His Pro Asp Leu Gln Gly Ile Thr Ile Tyr Val Ala
130 135 140

Gln Asp Cys Thr Val Pro Val Arg Leu Gly Gly Glu Arg Thr Asn Thr
145 150 155 160

Asp Tyr Leu Glu Phe Val Lys Gly Ile Leu Ser Leu Glu Tyr Cys Val
165 170 175

Gly Ile Ile Gly Gly Lys Pro Lys Gln Ser Tyr Tyr Phe Ala Gly Phe
180 185 190

Gln Asp Asp Ser Leu Ile Tyr Met Asp Pro His Tyr Cys Gln Ser Phe
195 200 205

Val Asp Val Ser Ile Lys Asp Phe Pro Leu Glu Thr Phe His Cys Pro
210 215 220

Ser Pro Xaa Lys Met Ser Phe Arg Lys Met Asp Pro Ser Cys Thr Ile
225 230 235 240

Gly Phe Tyr Cys Arg Asn Val Gln Asp Phe Lys Arg Ala Ser Glu Glu
245 250 255

Ile Thr Lys Met Leu Lys Phe Ser Ser Lys Glu Lys Tyr Pro Leu Phe
260 265 270

Thr Phe Val Asn Gly His Ser Arg Asp Tyr Asp Phe Thr Ser Thr Thr
275 280 285

Thr Asn Glu Glu Asp Leu Phe Ser Glu Asp Glu Lys Lys Gln Leu Lys
290 295 300

Arg Phe Ser Thr Glu Glu Phe Val Leu Leu
305 310

<210> 2038
<211> 56
<212> PRT
<213> Homo sapiens

<400> 2038
Met Arg Trp Leu Phe Val Leu Met Leu Ser Leu Pro Leu Pro Pro Thr
1 5 10 15

Pro Arg Gln Gly Pro Ala Cys Asp Val Pro Leu Pro Val Ser His Val
20 25 30

Phe Ser Leu Phe Asn Ser His Leu Gly Ala Arg Thr Cys Gly Val Trp
35 40 45

Phe Ser Leu Pro Val Ser Val Cys
50 55

275 280 285

Ser Trp Asn Lys Glu Leu Ile Asn Gln Ser Asp Phe Ser Met Asn Leu
290 295 300

Met Asp Leu Asn Leu Ser Asp Ser Gly Glu Tyr Leu Cys Asn Ile Ser
305 310 315 320

Ser Asp Glu Tyr Thr Leu Leu Thr Ile His Thr Val His Val Glu Pro
325 330 335

Ser Gln Glu Thr Ala Ser His Asn Lys Gly Leu Trp Ile Leu Val Pro
340 345 350

Ser Ala Ile Leu Ala Ala Phe Leu Leu Ile Trp Arg Val Lys Cys Cys
355 360 365

Arg Ala Gln Leu Glu Ala Arg Arg Ser Arg His Pro Ala Asp Gly Ala
370 375 380

Gln Gln Glu Arg Cys Cys Val Pro Pro Gly Glu Arg Cys Pro Ser Ala
385 390 395 400

Pro Asp Asn Gly Glu Glu Asn Val Pro Leu Ser Gly Lys Val
405 410

<210> 2040
<211> 200
<212> PRT
<213> Homo sapiens

<400> 2040

Met Ala Ser Ser Leu Thr Cys Thr Gly Val Ile Trp Ala Leu Leu Ser
1 5 10 15

Phe Leu Cys Ala Ala Thr Ser Cys Val Gly Phe Phe Met Pro Tyr Trp
20 25 30

Leu Trp Gly Ser Gln Leu Gly Lys Pro Val Ser Phe Gly Thr Phe Arg
35 40 45

Arg Cys Ser Tyr Pro Val His Asp Glu Ser Arg Gln Met Met Val Met
50 55 60

Val Glu Glu Cys Gly Arg Tyr Ala Ser Phe Gln Gly Ile Pro Ser Ala
65 70 75 80

Glu Trp Arg Ile Cys Thr Ile Val Thr Gly Leu Gly Cys Gly Leu Leu
85 90 95

Leu Leu Val Ala Leu Thr Ala Leu Met Gly Cys Cys Val Ser Asp Leu
100 105 110

Ile Ser Arg Thr Val Gly Arg Val Ala Gly Gly Ile Gln Phe Leu Gly
115 120 125

Gly Leu Leu Ile Gly Ala Gly Cys Ala Leu Tyr Pro Leu Gly Trp Asp
130 135 140

Ser Glu Glu Val Arg Gln Thr Cys Gly Tyr Thr Ser Gly Gln Phe Asp
145 150 155 160

Leu Gly Lys Cys Glu Ile Gly Trp Ala Tyr Tyr Cys Thr Gly Ala Gly
165 170 175

Ala Thr Ala Ala Met Leu Leu Cys Thr Trp Leu Ala Cys Phe Ser Gly
180 185 190

Lys Lys Gln Lys His Tyr Pro Tyr
195 200

<210> 2041

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2041

Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr
1 5 10 15

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val
20 25 30

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys
35 40 45

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe
50 55 60

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp
65 70 75 80

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val
85 90 95

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr
100 105 110

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe
115 120 125

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys
130 135 140

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp
145 150 155 160

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro
165 170 175

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val
180 185 190

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe
195 200 205

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
 275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
 290 295 300

Lys Ser Ser Phe Val Ile
 305 310

<210> 2048
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 2048
 Met His Met Leu Asn Gly Ala Leu Leu Ala Leu Leu Phe Pro Val Val
 1 5 10 15

Asn Thr Arg Leu Leu Pro Phe Glu Leu Glu Ile Tyr Tyr Ile Gln His
 20 25 30

Val Met Leu Tyr Val Val Pro Ile Tyr Leu Leu Trp Lys Gly Gly Ala
 35 40 45

Tyr Thr Pro Glu Pro Leu Ser Ser Phe Arg Trp Ala Leu Leu Ser Thr
 50 55 60

Gly Leu Met Phe Phe Tyr His Phe Ser Val Leu Gln Ile Leu Gly Leu
 65 70 75 80

Val Thr Glu Val Asn Leu Asn Asn Met Leu Cys Pro Ala Ile Ser Asp
 85 90 95

Pro Phe Tyr Gly Pro Trp Tyr Arg Ile Trp Ala Ser Gly His Gln Thr
 100 105 110

Leu Met Thr Met Thr His Gly Lys Leu Val Ile Leu Phe Ser Tyr Met
 115 120 125

Ala Gly Pro Leu Cys Lys Tyr Leu Leu Asp Leu Leu Arg Leu Pro Ala
 130 135 140

Lys Lys Ile Asp
 145

<210> 2049
 <211> 413
 <212> PRT
 <213> Homo sapiens

<400> 2049
 Met Leu Lys Ala Leu Phe Leu Thr Met Leu Thr Leu Ala Leu Val Lys
 1 5 10 15

Ser Gln Asp Thr Glu Glu Thr Ile Thr Tyr Thr Gln Cys Thr Asp Gly
 20 25 30

Tyr Glu Trp Asp Pro Val Arg Gln Gln Cys Lys Asp Ile Asp Glu Cys
35 40 45

Asp Ile Val Pro Asp Ala Cys Lys Gly Gly Met Lys Cys Val Asn His
50 55 60

Tyr Gly Gly Tyr Leu Cys Leu Pro Lys Thr Ala Gln Ile Ile Val Asn
65 70 75 80

Asn Glu Gln Pro Gln Gln Glu Thr Gln Pro Ala Glu Gly Thr Ser Gly
85 90 95

Ala Thr Thr Gly Val Val Ala Ala Ser Ser Met Ala Thr Ser Gly Val
100 105 110

Leu Pro Gly Gly Gly Phe Val Ala Ser Ala Ala Val Ala Gly Pro
115 120 125

Glu Met Gln Thr Gly Arg Asn Asn Phe Val Ile Arg Arg Asn Pro Ala
130 135 140

Asp Pro Gln Arg Ile Pro Ser Asn Pro Ser His Arg Ile Gln Cys Ala
145 150 155 160

Ala Gly Tyr Glu Gln Ser Glu His Asn Val Cys Gln Asp Ile Asp Glu
165 170 175

Cys Thr Ala Gly Thr His Asn Cys Arg Ala Asp Gln Val Cys Ile Asn
180 185 190

Leu Arg Gly Ser Phe Ala Cys Gln Cys Pro Pro Gly Tyr Gln Lys Arg
195 200 205

Gly Glu Gln Cys Val Asp Ile Asp Glu Cys Arg Thr Ser Ser Tyr Leu
210 215 220

Cys Gln Tyr Gln Cys Val Asn Glu Pro Gly Lys Phe Ser Cys Met Cys
225 230 235 240

Pro Gln Gly Tyr Gln Val Val Arg Ser Arg Thr Cys Gln Asp Ile Asn
245 250 255

Glu Cys Glu Thr Thr Asn Glu Cys Arg Glu Asp Glu Met Cys Trp Asn
260 265 270

Tyr His Gly Gly Phe Arg Cys Tyr Pro Arg Asn Pro Cys Gln Asp Pro
275 280 285

Tyr Ile Leu Thr Pro Glu Asn Arg Cys Val Cys Pro Val Ser Asn Ala
290 295 300

Met Cys Arg Glu Leu Pro Gln Ser Ile Val Tyr Lys Tyr Met Ser Ile
305 310 315 320

Arg Ser Asp Arg Ser Val Pro Ser Asp Ile Phe Gln Ile Gln Ala Thr
325 330 335

Thr Ile Tyr Ala Asn Thr Ile Asn Thr Phe Arg Ile Lys Ser Gly Asn
340 345 350

Ile	Ile	Leu	Met	Asp	Pro	Phe	Asp	Asp	Asp	Leu	Lys	Gln	Arg	Gly	Glu	
210						215					220					
Lys	Ser	Gly	Ile	Glu	Ile	Leu	Ser	Leu	Tyr	Asp	Ala	Glu	Asn	Leu	Gly	
225					230					235					240	
Lys	Glu	His	Phe	Arg	Lys	Pro	Val	Pro	Pro	Ser	Pro	Glu	Asp	Leu	Ser	
				245					250					255		
Val	Ile	Cys	Phe	Thr	Ser	Gly	Thr	Thr	Gly	Asp	Pro	Lys	Gly	Ala	Met	
			260					265					270			
Ile	Thr	His	Gln	Asn	Ile	Val	Ser	Asn	Ala	Ala	Ala	Phe	Leu	Lys	Cys	
		275					280					285				
Val	Glu	His	Ala	Tyr	Glu	Pro	Thr	Pro	Asp	Asp	Val	Ala	Ile	Ser	Tyr	
	290					295					300					
Leu	Pro	Leu	Ala	His	Met	Phe	Glu	Arg	Ile	Val	Gln	Ala	Val	Val	Tyr	
305					310					315					320	
Ser	Cys	Gly	Ala	Arg	Val	Gly	Phe	Phe	Gln	Gly	Asp	Ile	Arg	Leu	Leu	
				325					330					335		
Ala	Asp	Asp	Met	Lys	Thr	Leu	Lys	Pro	Thr	Leu	Phe	Pro	Ala	Val	Pro	
			340					345					350			
Arg	Leu	Leu	Asn	Arg	Ile	Tyr	Asp	Lys	Val	Gln	Asn	Glu	Ala	Lys	Thr	
		355					360					365				
Pro	Leu	Lys	Lys	Phe	Leu	Leu	Lys	Leu	Ala	Val	Ser	Ser	Lys	Phe	Lys	
	370					375					380					
Glu	Leu	Gln	Lys	Gly	Ile	Ile	Arg	His	Asp	Ser	Phe	Trp	Asp	Lys	Leu	
385					390					395					400	
Ile	Phe	Ala	Lys	Ile	Gln	Asp	Ser	Leu	Gly	Gly	Arg	Val	Arg	Val	Ile	
				405					410					415		
Val	Thr	Gly	Ala	Ala	Pro	Met	Ser	Thr	Ser	Val	Met	Thr	Phe	Phe	Arg	
			420					425					430			
Ala	Ala	Met	Gly	Cys	Gln	Val	Tyr	Glu	Ala	Tyr	Gly	Gln	Thr	Glu	Cys	
		435					440					445				
Thr	Gly	Gly	Cys	Thr	Phe	Thr	Leu	Pro	Gly	Asp	Trp	Thr	Ser	Gly	His	
	450					455					460					
Val	Gly	Val	Pro	Leu	Ala	Cys	Asn	Tyr	Val	Lys	Leu	Glu	Asp	Val	Ala	
465					470					475					480	
Asp	Met	Asn	Tyr	Phe	Thr	Val	Asn	Asn	Glu	Gly	Glu	Val	Cys	Ile	Lys	
				485					490					495		
Gly	Thr	Asn	Val	Phe	Lys	Gly	Tyr	Leu	Lys	Asp	Pro	Glu	Lys	Thr	Gln	
			500					505					510			
Glu	Ala	Leu	Asp	Ser	Asp	Gly	Trp	Leu	His	Thr	Gly	Asp	Ile	Gly	Arg	
		515					520					525				

Trp Leu Pro Asn Gly Thr Leu Lys Ile Ile Asp Arg Lys Lys Asn Ile
530 535 540

Phe Lys Leu Ala Gln Gly Glu Tyr Ile Ala Pro Glu Lys Ile Glu Asn
545 550 555 560

Ile Tyr Asn Arg Ser Gln Pro Val Leu Gln Ile Phe Val His Gly Glu
565 570 575

Ser Leu Arg Ser Ser Leu Val Gly Val Val Val Pro Asp Thr Asp Val
580 585 590

Leu Pro Ser Phe Ala Ala Lys Leu Gly Val Lys Gly Ser Phe Glu Glu
595 600 605

Leu Cys Gln Asn Gln Val Val Arg Glu Ala Ile Leu Glu Asp Leu Gln
610 615 620

Lys Ile Gly Lys Glu Ser Gly Leu Lys Thr Phe Glu Gln Val Lys Ala
625 630 635 640

Ile Phe Leu His Pro Glu Pro Phe Ser Ile Glu Asn Gly Leu Leu Thr
645 650 655

Pro Thr Leu Lys Ala Lys Arg Gly Glu Leu Ser Lys Tyr Phe Arg Thr
660 665 670

Gln Ile Asp Ser Leu Tyr Glu His Ile Gln Asp
675 680

<210> 2051
<211> 298
<212> PRT
<213> Homo sapiens

<400> 2051
Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg
1 5 10 15

Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Leu Gly Trp
20 25 30

Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn
35 40 45

Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala
50 55 60

Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn
65 70 75 80

Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu
85 90 95

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala
100 105 110

Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr
1342

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala
100 105 110

Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr
115 120 125

Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser
130 135 140

Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val
145 150 155 160

Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu
165 170 175

Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln
180 185 190

Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys
195 200 205

Phe His Ile Met Phe Leu Phe Phe Ala Ala Ala Met Phe Ser Val Ser
210 215 220

Leu Ser Ser Leu Phe Gly Tyr His Cys Trp Leu Val Ser Lys Asn Lys
225 230 235 240

Ser Thr Leu Glu Ala Phe Arg Ser Pro Val Phe Arg His Gly Thr Asp
245 250 255

Lys Asn Gly Phe Ser Leu Gly Phe Ser Lys Asn Met Arg Gln Val Leu
260 265 270

Val Met Arg Arg Ser Thr Gly Cys Tyr Pro Phe Phe Gln Val
275 280 285

<210> 2053
<211> 47
<212> PRT
<213> Homo sapiens

<400> 2053
Met Ser His Gly Ser Gln Pro Phe Leu Leu Leu Leu Ser Leu His Ile
1 5 10 15

Leu Ile Leu Ala Gly Ser Phe Leu Leu Phe Ser Pro Tyr Thr Ala Lys
20 25 30

Pro Ser Phe Ser Ser Ser Phe Ile Val Phe Pro Arg Ala Glu Met
35 40 45

<210> 2054
<211> 914
<212> PRT
<213> Homo sapiens

<400> 2054

Met Gly Pro Phe Lys Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu
1 5 10 15
Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr
20 25 30
Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr
35 40 45
Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu
50 55 60
Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu
65 70 75 80
Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu
85 90 95
Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro
100 105 110
Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys
115 120 125
Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu
130 135 140
Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu Trp Ala His
145 150 155 160
Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr
165 170 175
Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr
180 185 190
Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys
195 200 205
Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu
210 215 220
Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala
225 230 235 240
Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn
245 250 255
Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr
260 265 270
Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met
275 280 285
Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln
290 295 300
Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly

1345

092445 04300

305 310 315 320
 Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln
 325 330 335
 Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala
 340 345 350
 Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg
 355 360 365
 Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser
 370 375 380
 Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr
 385 390 395 400
 Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn
 405 410 415
 Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile
 420 425 430
 His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu
 435 440 445
 Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln
 450 455 460
 Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly
 465 470 475 480
 Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu
 485 490 495
 Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser Thr Val
 500 505 510
 Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln
 515 520 525
 Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val
 530 535 540
 Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys
 545 550 555 560
 Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr
 565 570 575
 Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr
 580 585 590
 Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu
 595 600 605
 Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala
 610 615 620
 Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu

<212> PRT
<213> Homo sapiens

<400> 2055

Met Ala Ser Cys Gly Leu Thr Gly Ala Ser Leu Pro Pro Cys Cys Cys
1 5 10 15
Ser Ser Phe Leu Ala Ala Leu Lys Ser Met Phe Trp Gly Leu Gly Ser
20 25 30
Leu Leu Trp Ser Leu Val Gly Ile Leu Ser Pro Ile Ser Ser Cys Phe
35 40 45
Cys Val Tyr Thr Cys Leu Thr Pro Gly Ser Ser Ser Leu Phe Pro Arg
50 55 60
Ala Val Thr Gln Lys Leu Glu Gln Ser Val Pro Thr Lys Ala Leu Trp
65 70 75 80
Gly Trp Met

<210> 2056
<211> 68
<212> PRT
<213> Homo sapiens

<400> 2056

Met Ala Thr Val Gly Leu Ser Trp Lys Lys Glu Leu Val Ile Leu Leu
1 5 10 15
Val Gly Pro Gly Ala Ala Ala Leu Gln Pro Thr His Thr Cys Cys Ser
20 25 30
Leu Pro Ser Leu Ser Ser Leu Phe Pro Leu Arg Leu Asn Thr Lys Thr
35 40 45
Ser Pro Lys Thr Thr Arg Thr Asn Leu Tyr Leu Leu Ser Ile Ala Pro
50 55 60
Leu Ser His Leu
65

<210> 2057
<211> 73
<212> PRT
<213> Homo sapiens

<400> 2057

Met Glu Leu Leu Lys Cys Ser Trp Gln Leu Phe Phe Ser Phe Leu Thr
1 5 10 15
His Cys Ser Ala Ser Thr Ile Val Trp Leu Phe Val Gln His Arg Leu
20 25 30
Ser Gln Ser His Asn Lys Pro Phe Phe Gly Ile Leu Gln Arg Cys His

35

40

45

Ser Trp His Leu Asn Arg Glu Ser Phe Val Pro Asn Gln Ser Phe Ser
 50 55 60

Ile Tyr Glu Ser Cys Ser Ile Arg Lys
 65 70

<210> 2058

<211> 85

<212> PRT

<213> Homo sapiens

<400> 2058

Met Gln Val Phe Phe Leu Ser Glu Ile Gly Met Leu Trp Val Val Val
 1 5 10 15

Lys Met Ala His Ser Ala Met Leu Val Ser His Thr Gln Asp Pro Thr
 20 25 30

Pro Ser Arg Trp Pro Cys Ser Leu Ala Gln Ser Ile Leu Leu Thr Cys
 35 40 45

Ser Pro Gln His Arg Phe Ser Leu Glu Arg Lys Ile Gln Leu Pro Pro
 50 55 60

Arg Arg Trp Trp Ala Glu Gly Arg Glu Gly Cys Trp Val Arg Glu Arg
 65 70 75 80

Val Gly Glu Arg Thr
 85

<210> 2059

<211> 51

<212> PRT

<213> Homo sapiens

<400> 2059

Met Leu Thr Leu Thr His Phe Val Ser Tyr Asp Tyr Phe Ile Val Lys
 1 5 10 15

Arg Leu Val Gly Trp Leu Val Gly Trp Leu Val Cys Phe Val Leu Val
 20 25 30

Ser Pro Phe Ile His Ser Leu Ser Thr Asn Tyr Asn Phe Leu Cys Phe
 35 40 45

Met Cys Gly
 50

<210> 2060

<211> 354

<212> PRT

<213> Homo sapiens

1349

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<400> 2060

Met Ala Pro Ala Lys Ala Thr Asn Val Val Arg Leu Leu Leu Gly Ser
1 5 10 15

Thr Ala Leu Trp Leu Ser Gln Leu Gly Ser Gly Thr Val Ala Ala Ser
20 25 30

Lys Ser Val Thr Ala His Leu Ala Ala Lys Trp Pro Glu Thr Pro Leu
35 40 45

Leu Leu Glu Ala Ser Glu Phe Met Ala Glu Glu Ser Asn Glu Lys Phe
50 55 60

Trp Gln Phe Leu Glu Thr Val Gln Glu Leu Ala Ile Tyr Lys Gln Thr
65 70 75 80

Glu Ser Asp Tyr Ser Tyr Tyr Asn Leu Ile Leu Lys Lys Ala Gly Gln
85 90 95

Phe Leu Asp Asn Leu His Ile Asn Leu Leu Lys Phe Ala Phe Ser Ile
100 105 110

Arg Ala Tyr Ser Pro Ala Ile Gln Met Phe Gln Gln Ile Ala Ala Asp
115 120 125

Glu Pro Pro Pro Asp Gly Cys Asn Ala Phe Val Val Ile His Lys Lys
130 135 140

His Thr Cys Lys Ile Asn Glu Ile Lys Lys Leu Leu Lys Lys Ala Ala
145 150 155 160

Ser Arg Thr Arg Pro Tyr Leu Phe Lys Gly Asp His Lys Phe Pro Thr
165 170 175

Asn Lys Glu Asn Leu Pro Val Val Ile Leu Tyr Ala Glu Met Gly Thr
180 185 190

Arg Thr Phe Ser Ala Phe His Lys Val Leu Ser Glu Lys Ala Gln Asn
195 200 205

Glu Glu Ile Leu Tyr Val Leu Arg His Tyr Ile Gln Lys Pro Ser Ser
210 215 220

Arg Lys Met Tyr Leu Ser Gly Tyr Gly Val Glu Leu Ala Ile Lys Ser
225 230 235 240

Thr Glu Tyr Lys Ala Leu Asp Asp Thr Gln Val Lys Thr Val Thr Asn
245 250 255

Thr Thr Val Glu Asp Glu Thr Glu Thr Asn Glu Val Gln Gly Phe Leu
260 265 270

Phe Gly Lys Leu Lys Glu Ile Tyr Ser Asp Leu Arg Asp Asn Leu Thr
275 280 285

Ala Phe Gln Lys Tyr Leu Ile Glu Ser Asn Lys Gln Met Met Pro Leu
290 295 300

Lys Val Trp Glu Leu Gln Asp Leu Ser Phe Gln Ala Ala Ser Gln Ile

1350

0041201 SHEET 60

Ser Asp Gly Arg Lys Glu Arg Arg Arg Thr Thr Phe Leu Arg Cys Cys
 20 25 30

Asp Phe Ile Met Lys Pro Ser Pro Ala Leu Ile Leu Val Thr Ser Val
 35 40 45

Gly Pro Val Leu Leu Gln Asn Ala Ser Trp Val Ser Val Cys Arg Thr
 50 55 60

Leu Leu Ser
 65

<210> 2063
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 2063
 Met Tyr Phe Phe Phe Phe Leu Thr Phe Leu Ala Leu Trp Val Met Gly
 1 5 10 15

Thr Thr Ala Met Ala Ser Pro Phe Phe Met Gly Tyr Gln Leu Gln Tyr
 20 25 30

Gly Pro Gln Cys Cys Ser Gly His Phe Asn Asp
 35 40

<210> 2064
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 2064
 Met Cys Glu Gly Trp Leu His Pro Ile Phe Leu Tyr Cys Cys Phe Trp
 1 5 10 15

Thr Thr Thr Pro Ser Cys Ser Ala Phe Gly Ile Leu Asp Leu His Gln
 20 25 30

Gln His Pro Ile Pro Thr Pro Ser Ser Trp Phe Ser Gly Leu Cys Pro
 35 40 45

Trp Thr Glu Leu His His Cys Leu Arg
 50 55

<210> 2065
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 2065
 Met Ile Ile Cys Leu Ile Met Phe Tyr Phe Ile Ala Leu Ala Gly Ala
 1 5 10 15

Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
 225 230 235 240

Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr
 245 250 255

Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met
 260 265 270

Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala
 275 280 285

Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln
 290 295 300

Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln
 305 310 315 320

Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu
 325 330 335

Leu Leu Ala Val Ala Ala Gly Val Leu Leu
 340 345

<210> 2069
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 2069
 Met Arg Leu Ser Arg Ala Ala His Asn Leu Gln Thr Ile Leu Tyr Ser
 1 5 10 15

Val Phe Cys Leu Cys Leu His Val Ala Met Met Asp Arg Ser Pro Ser
 20 25 30

Ser Ile Leu Ala Leu Trp Arg Ser Gly Ser Cys Ser Val Glu Ile
 35 40 45

<210> 2070
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 2070
 Met Leu Leu His Trp Leu Leu Gln Asn Glu Leu Gln Ser Ala Val Ala
 1 5 10 15

Ser Cys Leu Val Ser Ile Ser Leu Gly Lys Glu Asp Phe Leu Gln Thr
 20 25 30

Gly Cys Lys Val Lys Ser His Val Gly Val Ile His Arg Arg Glu Lys
 35 40 45

Gly Gly Ala Ile Tyr Leu Pro Asn Ser Leu Val Leu Pro Thr Ser His
 50 55 60

1 5 10 15
Ala Arg Gln Lys Val Lys Leu Cys Phe Leu Leu Met Leu Leu Ala Thr
20 25 30
Trp Lys Arg Arg Arg Gly Arg Gly Lys Arg Gly Arg Ser
35 40 45
<210> 2075
<211> 201
<212> PRT
<213> Homo sapiens
<400> 2075
Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
1 5 10 15
Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
20 25 30
Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
35 40 45
Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
50 55 60
Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr
65 70 75 80
Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn
85 90 95
Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile
100 105 110
Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn
115 120 125
Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val
130 135 140
Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala
145 150 155 160
Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu
165 170 175
Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys
180 185 190
Arg Phe Phe Glu Val Arg Arg Val Val
195 200

<210> 2076
<211> 201
<212> PRT

<213> Homo sapiens

<400> 2076

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
1 5 10 15
Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
20 25 30
Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
35 40 45
Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
50 55 60
Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr
65 70 75 80
Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn
85 90 95
Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile
100 105 110
Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn
115 120 125
Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val
130 135 140
Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala
145 150 155 160
Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu
165 170 175
Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys
180 185 190
Arg Phe Phe Glu Val Arg Arg Val Val
195 200

<210> 2077

<211> 587

<212> PRT

<213> Homo sapiens

<400> 2077

Met Trp Arg Leu Gly Cys Leu Ile Trp Glu Val Phe Asn Gly Pro Leu
1 5 10 15
Pro Arg Ala Ala Ala Leu Arg Asn Pro Gly Lys Ile Pro Lys Thr Leu
20 25 30
Val Pro His Tyr Cys Glu Leu Val Gly Ala Asn Pro Lys Val Arg Pro
35 40 45
Asn Pro Ala Arg Phe Leu Gln Asn Cys Arg Ala Pro Gly Gly Phe Met

1360

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50	55	60
Ser Asn Arg Phe Val Glu Thr Asn Leu Phe Leu Glu Glu Ile Gln Ile		
65	70	75 80
Lys Glu Pro Ala Glu Lys Gln Lys Phe Phe Gln Glu Leu Ser Lys Ser		
	85	90 95
Leu Asp Ala Phe Pro Glu Asp Phe Cys Arg His Lys Val Leu Pro Gln		
	100	105 110
Leu Leu Thr Ala Phe Glu Phe Gly Asn Ala Gly Ala Val Val Leu Thr		
	115	120 125
Pro Leu Phe Lys Val Gly Lys Phe Leu Ser Ala Glu Glu Tyr Gln Gln		
	130	135 140
Lys Ile Ile Pro Val Val Val Lys Met Phe Ser Ser Thr Asp Arg Ala		
145	150	155 160
Met Arg Ile Arg Leu Leu Gln Gln Met Glu Gln Phe Ile Gln Tyr Leu		
	165	170 175
Asp Glu Pro Thr Val Asn Thr Gln Ile Phe Pro His Val Val His Gly		
	180	185 190
Phe Leu Asp Thr Asn Pro Ala Ile Arg Glu Gln Thr Val Lys Ser Met		
	195	200 205
Leu Leu Leu Ala Pro Lys Leu Asn Glu Ala Asn Leu Asn Val Glu Leu		
	210	215 220
Met Lys His Phe Ala Arg Leu Gln Ala Lys Asp Glu Gln Gly Pro Ile		
225	230	235 240
Arg Cys Asn Thr Thr Val Cys Leu Gly Lys Ile Gly Ser Tyr Leu Ser		
	245	250 255
Ala Ser Thr Arg His Arg Val Leu Thr Ser Ala Phe Ser Arg Ala Thr		
	260	265 270
Arg Asp Pro Phe Ala Pro Ser Arg Val Ala Gly Val Leu Gly Phe Ala		
	275	280 285
Ala Thr His Asn Leu Tyr Ser Met Asn Asp Cys Ala Gln Lys Ile Leu		
	290	295 300
Pro Val Leu Cys Gly Leu Thr Val Asp Pro Glu Lys Ser Val Arg Asp		
305	310	315 320
Gln Ala Phe Lys Ala Ile Arg Ser Phe Leu Ser Lys Leu Glu Ser Val		
	325	330 335
Ser Glu Asp Pro Thr Gln Leu Glu Glu Val Glu Lys Asp Val His Ala		
	340	345 350
Ala Ser Ser Pro Gly Met Gly Gly Ala Ala Ala Ser Trp Ala Gly Trp		
	355	360 365
Ala Val Thr Gly Val Ser Ser Leu Thr Ser Lys Leu Ile Arg Ser His		

380

Gly Pro Met Lys Leu Gly Ala Arg Lys Leu Asp
580 585

<213> Homo sapiens

Pro Ser Cys Thr Gln Gly Asp Gly Glu Ala Arg Gly His His Thr Gln
50 55 60

1362

[illegible]

<210> 2081
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 2081
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Ala
 20 25 30
 Thr Ala Ala Arg Gly Ala Leu Glu Lys Ala Ser Gly Gln Arg Arg Glu
 35 40 45
 Pro Glu Met Gln Arg Pro Glu Ala Ala Arg Ser Leu Pro Glu Gly Thr
 50 55 60
 Val Pro Pro Glu Val Glu Glu Pro Pro Pro Leu Cys His Leu Glu Gln
 65 70 75 80
 Leu Trp Arg Cys Ser Ser Pro Leu Ala Gln Ser Phe Cys Gly Ser Gly
 85 90 95
 Ser Gly Trp Pro Arg Pro Ala Cys Ala Leu Pro Leu Cys Pro Pro Pro
 100 105 110
 Cys Ala Gly Ala Pro Cys Cys Thr Ala Ser Ala Ala Ala Ala Arg Ala
 115 120 125
 Arg Trp Cys Trp Arg Gln Ser Phe Trp Ser Pro Trp Ser Arg Thr Cys
 130 135 140
 Pro Pro
 145

<210> 2082
 <211> 30
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2082
 Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met
 1 5 10 15
 Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Xaa Ile Gln
 20 25 30

<210> 2083
 <211> 56

<212> PRT
<213> Homo sapiens

<400> 2083

Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met
1 5 10 15
Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Ala His Thr Val Ser
20 25 30
Thr Val His Trp Arg Lys Trp Thr Lys Met Leu Val Gln Ser Pro Thr
35 40 45
Gln Val Lys Met Asn Val Ser Gln
50 55

<210> 2084

<211> 563

<212> PRT

<213> Homo sapiens

<400> 2084

Met Gly Ser Leu Ser Asn Tyr Ala Leu Leu Gln Leu Thr Leu Thr Ala
1 5 10 15
Phe Leu Thr Ile Leu Val Gln Pro Gln His Leu Leu Ala Pro Val Phe
20 25 30
Arg Thr Leu Ser Ile Leu Thr Asn Gln Ser Asn Cys Trp Leu Cys Glu
35 40 45
His Leu Asp Asn Ala Glu Gln Pro Glu Leu Val Phe Val Pro Ala Ser
50 55 60
Ala Ser Thr Trp Trp Thr Tyr Ser Gly Gln Trp Met Tyr Glu Arg Val
65 70 75 80
Trp Tyr Pro Gln Ala Glu Val Gln Asn His Ser Thr Ser Ser Tyr Arg
85 90 95
Lys Val Thr Trp His Trp Glu Ala Ser Met Glu Ala Gln Gly Leu Ser
100 105 110
Phe Ala Gln Val Arg Leu Leu Glu Gly Asn Phe Ser Leu Cys Val Glu
115 120 125
Asn Lys Asn Gly Ser Gly Pro Phe Leu Gly Asn Ile Pro Lys Gln Tyr
130 135 140
Cys Asn Gln Ile Leu Trp Phe Asp Ser Thr Asp Gly Thr Phe Met Pro
145 150 155 160
Ser Ile Asp Val Thr Asn Glu Ser Arg Asn Asp Asp Asp Asp Pro Ser
165 170 175
Val Cys Leu Gly Thr Arg Gln Cys Ser Trp Phe Ala Gly Cys Thr Asn
180 185 190

Arg	Thr	Trp	Asn	Ser	Ser	Ala	Val	Pro	Leu	Ile	Gly	Leu	Pro	Asn	Thr	195	200	205	
Gln	Asp	Tyr	Lys	Trp	Val	Asp	Arg	Asn	Ser	Gly	Leu	Thr	Trp	Ser	Gly	210	215	220	
Asn	Asp	Thr	Cys	Leu	Tyr	Ser	Cys	Gln	Asn	Gln	Thr	Lys	Gly	Leu	Leu	225	230	235	240
Tyr	Gln	Leu	Phe	Arg	Asn	Leu	Phe	Cys	Ser	Tyr	Gly	Leu	Thr	Glu	Ala	245	250	255	
His	Gly	Lys	Trp	Arg	Cys	Ala	Asp	Ala	Ser	Ile	Thr	Asn	Asp	Lys	Gly	260	265	270	
His	Asp	Gly	His	Arg	Thr	Pro	Thr	Trp	Trp	Leu	Thr	Gly	Ser	Asn	Leu	275	280	285	
Thr	Leu	Ser	Val	Asn	Asn	Ser	Gly	Leu	Phe	Phe	Leu	Cys	Gly	Asn	Gly	290	295	300	
Val	Tyr	Lys	Gly	Phe	Pro	Pro	Lys	Trp	Ser	Gly	Arg	Cys	Gly	Leu	Gly	305	310	315	320
Tyr	Leu	Val	Pro	Ser	Leu	Thr	Arg	Tyr	Leu	Thr	Leu	Asn	Ala	Ser	Gln	325	330	335	
Ile	Thr	Asn	Leu	Arg	Ser	Phe	Ile	His	Lys	Val	Thr	Pro	His	Arg	Cys	340	345	350	
Thr	Gln	Gly	Asp	Thr	Asp	Asn	Pro	Pro	Leu	Tyr	Cys	Asn	Pro	Lys	Asp	355	360	365	
Asn	Ser	Thr	Ile	Arg	Ala	Leu	Phe	Pro	Ser	Leu	Gly	Thr	Tyr	Asp	Leu	370	375	380	
Glu	Lys	Ala	Ile	Leu	Asn	Ile	Ser	Lys	Ala	Met	Glu	Gln	Glu	Phe	Ser	385	390	395	400
Ala	Thr	Lys	Gln	Thr	Leu	Glu	Ala	His	Gln	Ser	Lys	Val	Ser	Ser	Leu	405	410	415	
Ala	Ser	Ala	Ser	Arg	Lys	Asp	His	Val	Leu	Asp	Ile	Pro	Thr	Thr	Gln	420	425	430	
Arg	Gln	Thr	Ala	Cys	Gly	Thr	Val	Gly	Lys	Gln	Cys	Cys	Leu	Tyr	Ile	435	440	445	
Asn	Tyr	Ser	Glu	Glu	Ile	Lys	Ser	Asn	Ile	Gln	Arg	Leu	His	Glu	Ala	450	455	460	
Ser	Glu	Asn	Leu	Lys	Asn	Val	Pro	Leu	Leu	Asp	Trp	Gln	Gly	Ile	Phe	465	470	475	480
Ala	Lys	Val	Gly	Asp	Trp	Phe	Arg	Ser	Trp	Gly	Tyr	Val	Leu	Leu	Ile	485	490	495	
Val	Leu	Phe	Cys	Leu	Phe	Ile	Phe	Val	Leu	Ile	Tyr	Val	Arg	Val	Phe	500	505	510	

Arg Lys Ser Arg Arg Ser Leu Asn Ser Gln Pro Leu Asn Leu Ala Leu
515 520 525

Ser Pro Gln Gln Ser Ala Gln Leu Leu Val Ser Glu Thr Ser Cys Gln
530 535 540

Val Ser Asn Arg Ala Met Lys Gly Leu Thr Thr His Gln Tyr Asp Thr
545 550 555 560

Ser Leu Leu

<210> 2085
<211> 599
<212> PRT
<213> Homo sapiens

<400> 2085
Met Glu Leu Leu Gly Pro Val Pro Pro Glu Gln Gln Phe Ile Asn Gln
1 5 10 15

Lys Met Arg Pro Gly Ser Gly Met Leu Ser Ile Arg Val Ile Pro Asp
20 25 30

Gly Pro Thr Arg Ala Leu Gln Ile Thr Asp Phe Cys His Arg Lys Ser
35 40 45

Ser Arg Ser Tyr Glu Val Asp Glu Leu Pro Val Thr Glu Gln Glu Leu
50 55 60

Gln Lys Leu Lys Asn Pro Asp Thr Glu Gln Glu Leu Glu Val Leu Val
65 70 75 80

Arg Leu Glu Gly Gly Ile Gly Leu Ser Leu Ile Asn Lys Val Pro Glu
85 90 95

Glu Leu Val Phe Ala Ser Leu Thr Gly Ile Asn Val His Tyr Thr Gln
100 105 110

Leu Ala Thr Ser His Met Leu Glu Leu Ser Ile Gln Asp Val Gln Val
115 120 125

Asp Asn Gln Leu Ile Gly Thr Thr Gln Pro Phe Met Leu Tyr Val Thr
130 135 140

Pro Leu Ser Asn Glu Asn Glu Val Ile Glu Thr Gly Pro Ala Val Gln
145 150 155 160

Val Asn Ala Val Lys Phe Pro Ser Lys Ser Ala Leu Thr Asn Ile Tyr
165 170 175

Lys His Leu Met Ile Thr Ala Gln Arg Phe Thr Val Gln Ile Glu Glu
180 185 190

Lys Leu Leu Leu Lys Leu Leu Ser Phe Phe Gly Tyr Asp Gln Ala Glu
195 200 205

Ser Glu Val Glu Lys Tyr Asp Glu Asn Leu His Glu Lys Thr Ala Glu

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210					215					220					
Gln	Gly	Gly	Thr	Pro	Ile	Arg	Tyr	Tyr	Phe	Glu	Asn	Leu	Lys	Ile	Ser
225					230					235					240
Ile	Pro	Gln	Ile	Lys	Leu	Ser	Val	Phe	Thr	Ser	Asn	Lys	Leu	Pro	Leu
				245					250					255	
Asp	Leu	Lys	Ala	Leu	Lys	Ser	Thr	Leu	Gly	Phe	Pro	Leu	Ile	Arg	Phe
			260					265					270		
Glu	Asp	Ala	Val	Ile	Asn	Leu	Asp	Pro	Phe	Thr	Arg	Val	His	Pro	Tyr
		275					280					285			
Glu	Thr	Lys	Glu	Phe	Ile	Ile	Asn	Asp	Ile	Leu	Lys	His	Phe	Gln	Glu
	290					295					300				
Glu	Leu	Leu	Ser	Gln	Ala	Ala	Arg	Ile	Leu	Gly	Ser	Val	Asp	Phe	Leu
305				310						315					320
Gly	Asn	Pro	Met	Gly	Leu	Leu	Asn	Asp	Val	Ser	Glu	Gly	Val	Thr	Gly
				325					330					335	
Leu	Ile	Lys	Tyr	Gly	Asn	Val	Gly	Gly	Leu	Ile	Arg	Asn	Val	Thr	His
			340					345					350		
Gly	Val	Ser	Asn	Ser	Ala	Gly	Lys	Phe	Ala	Gly	Thr	Leu	Ser	Asp	Gly
		355					360					365			
Leu	Gly	Lys	Thr	Met	Asp	Asn	Arg	His	Gln	Ser	Glu	Arg	Glu	Tyr	Ile
	370					375					380				
Arg	Tyr	His	Ala	Ala	Thr	Ser	Gly	Glu	His	Leu	Val	Ala	Gly	Ile	His
385					390					395					400
Gly	Leu	Ala	His	Gly	Ile	Ile	Gly	Gly	Leu	Thr	Ser	Val	Ile	Thr	Ser
			405						410					415	
Thr	Val	Glu	Gly	Val	Lys	Thr	Glu	Gly	Gly	Val	Ser	Gly	Phe	Ile	Ser
			420					425					430		
Gly	Leu	Gly	Lys	Gly	Leu	Val	Gly	Thr	Val	Thr	Lys	Pro	Val	Ala	Gly
		435					440					445			
Ala	Leu	Asp	Phe	Ala	Ser	Glu	Thr	Ala	Gln	Ala	Val	Arg	Asp	Thr	Ala
		450				455						460			
Thr	Leu	Ser	Gly	Pro	Arg	Thr	Gln	Ala	Gln	Arg	Val	Arg	Lys	Pro	Arg
465					470					475					480
Cys	Cys	Thr	Gly	Pro	Gln	Gly	Leu	Leu	Pro	Arg	Tyr	Ser	Glu	Ser	Gln
				485					490					495	
Ala	Glu	Gly	Gln	Glu	Gln	Leu	Phe	Lys	Leu	Thr	Asp	Asn	Ile	Gln	Asp
			500					505					510		
Glu	Phe	Phe	Ile	Ala	Val	Glu	Asn	Ile	Asp	Ser	Tyr	Cys	Val	Leu	Ile
		515					520					525			
Ser	Ser	Lys	Ala	Val	Tyr	Phe	Leu	Lys	Ser	Gly	Asp	Tyr	Val	Asp	Arg

530

535

540

Glu Ala Ile Phe Leu Glu Val Lys Tyr Asp Asp Leu Leu Pro Leu Pro
545 550 555 560

Cys Leu Gln Arg Pro Trp Glu Gly Val Cys Ala Gly Asp Gln Glu Ser
565 570 575

Arg Glu His Glu Gln Trp Ser Val His Pro Arg Pro Leu Pro Pro Glu
580 585 590

Ala His Gly Pro Cys Glu Ile
595

<210> 2086

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2086

Met Ala Pro Leu Leu Pro Ser Leu Pro Leu His Leu His Thr Ser Leu
1 5 10 15

Cys Leu Arg Leu Cys Leu Ser Leu Ser Leu Ser Ala Trp Leu Ser Trp
20 25 30

Ser Leu Pro Leu Cys Val Ser Leu Ser Ala Ser Tyr Pro Ala Trp Arg
35 40 45

Leu Leu Pro Gln Leu His Gly Arg Ser Arg Glu Gln Arg Tyr Thr Lys
50 55 60

Leu Ala Asp Trp Gln Tyr Ile Glu Glu Cys Val Gln Ala Ala Ser Pro
65 70 75 80

Met Pro Leu Phe Gly Asn Gly Asp Ile Leu Ser Phe Glu Asp Ala Asn
85 90 95

Arg Ala Met Gln Thr Gly Val Thr Gly Ile Met Ile Ala Arg Gly Ala
100 105 110

Leu Leu Lys Pro Trp Leu Phe Thr Glu Ile Lys Glu Gln Arg His Trp
115 120 125

Asp Ile Ser Ser Ser Glu Arg Leu Asp Ile Leu Arg Asp Phe Thr Asn
130 135 140

Tyr Gly Leu Glu His Trp Gly Ser Asp Thr Gln Gly Val Glu Lys Thr
145 150 155 160

Arg Arg Phe Leu Leu Glu Trp Leu Ser Phe Leu Cys Arg Tyr Val Pro
165 170 175

Val Gly Leu Leu Glu Arg Leu Pro Gln Arg Ile Asn Glu Arg Pro Pro
180 185 190

Tyr Tyr Leu Gly Arg Asp Tyr Leu Glu Thr Leu Met Ala Ser Gln Lys
195 200 205

1369

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Ala Ala Asp Trp Ile Arg Ile Ser Glu Met Leu Leu Gly Pro Val Pro
210 215 220

Pro Ser Phe Ala Phe Leu Pro Lys His Lys Ala Asn Ala Tyr Lys
225 230 235

<210> 2087
<211> 127
<212> PRT
<213> Homo sapiens

<400> 2087
Met Ala Gln Tyr Ile Leu Val Ile Ile Leu Ile Ser Phe Cys Ser Asp
1 5 10 15
Ser Leu Ser Gly Arg Ala Gln Asn Gly Thr Glu Ile Asn Gln Thr Val
20 25 30
Ile Leu Ile Cys Ser Leu Arg Phe Phe Lys Ser Glu Ala Ile Asp Ala
35 40 45
Cys Leu Met His Pro His Thr Ala Cys Leu Thr Gly Asp Ala Thr Leu
50 55 60
Leu Ser Ser Ser Ala Met Lys His Lys Arg Gln Arg Lys Ser Arg Tyr
65 70 75 80
Thr Ser His Arg Glu His Phe Arg Val Pro Gln Arg Trp Trp Gln Glu
85 90 95
Ala His Ser Arg Val Ser Ile Arg Val Cys Val Trp Val Ser Gly Ile
100 105 110
Ser Val Ala Pro Ile Phe Leu His Cys Ser Glu His Pro Val Leu
115 120 125

<210> 2088
<211> 138
<212> PRT
<213> Homo sapiens

<400> 2088
Met Lys Met Met Val Val Leu Leu Met Leu Ser Ser Leu Ser Arg Leu
1 5 10 15
Leu Gly Leu Met Arg Pro Ser Ser Leu Arg Gln Tyr Leu Asp Ser Val
20 25 30
Pro Leu Pro Pro Cys Gln Glu Gln Gln Pro Lys Ala Ser Ala Glu Leu
35 40 45
Asp His Lys Ala Cys Tyr Leu Cys His Ser Leu Leu Met Leu Ala Gly
50 55 60
Val Val Val Ser Cys Gln Asp Ile Thr Pro Asp Gln Trp Gly Glu Leu

1370

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65 70 75 80
Gln Leu Leu Cys Met Gln Leu Asp Arg His Ile Ser Thr Gln Ile Arg
85 90 95
Glu Ser Pro Gln Ala Met His Arg Thr Met Leu Lys Asp Leu Ala Thr
100 105 110
Gln Thr Tyr Ile Arg Trp Gln Glu Leu Leu Thr His Cys Gln Pro Gln
115 120 125
Ala Gln Tyr Phe Ser Pro Trp Lys Asp Ile
130 135

<210> 2089
<211> 132
<212> PRT
<213> Homo sapiens

<400> 2089
Met Glu Ile Tyr Leu Ser Leu Gly Val Leu Ala Leu Gly Thr Leu Ser
1 5 10 15
Leu Leu Ala Val Thr Ser Leu Pro Ser Ile Ala Asn Ser Leu Asn Trp
20 25 30
Arg Glu Phe Ser Phe Val Gln Ser Ser Leu Gly Phe Val Ala Leu Val
35 40 45
Leu Ser Thr Leu His Thr Leu Thr Tyr Gly Trp Thr Arg Ala Phe Glu
50 55 60
Glu Ser Arg Tyr Lys Phe Tyr Leu Pro Pro Thr Phe Thr Leu Thr Leu
65 70 75 80
Leu Val Pro Cys Val Val Ile Leu Ala Lys Ala Leu Phe Leu Leu Pro
85 90 95
Cys Ile Ser Arg Arg Leu Ala Arg Ile Arg Arg Gly Trp Glu Arg Glu
100 105 110
Ser Thr Ile Lys Phe Thr Leu Pro Thr Asp His Ala Leu Ala Glu Lys
115 120 125
Thr Ser His Val
130

<210> 2090
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2090
 Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly
 1 5 10 15
 Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu
 20 25 30
 Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val
 35 40 45
 Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly
 50 55 60
 Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr
 65 70 75 80
 Ser Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val
 85 90 95
 Glu Asp Leu His His Tyr Arg Asn Leu Ser Xaa Phe Xaa Arg Arg Lys
 100 105 110
 Leu Lys Ala Xaa Gly Pro Ala Cys Leu Trp Pro Ala Gln Arg Asp
 115 120 125

<210> 2091
 <211> 89
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2091
 Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly
 1 5 10 15
 Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu
 20 25 30
 Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val
 35 40 45
 Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly
 50 55 60

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser
50 55 60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val
65 70 75 80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Val Leu His Arg Phe Leu
85 90 95

Arg Xaa Gly Xaa Gly Leu Leu Gly Ser Trp Thr Gly Leu Glu
100 105 110

<210> 2094
<211> 374
<212> PRT
<213> Homo sapiens

<400> 2094
Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu
1 5 10 15

Gly Leu Val Leu Leu Leu Leu Leu Ser Leu Leu Cys Gly Ala Ala
20 25 30

Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly
35 40 45

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser
50 55 60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val
65 70 75 80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Met Val Pro Ile Pro Ala
85 90 95

Gly Val Phe Thr Met Gly Thr Asp Asp Pro Gln Ile Lys Gln Asp Gly
100 105 110

Glu Ala Pro Ala Arg Arg Val Thr Ile Asp Ala Phe Tyr Met Asp Ala
115 120 125

Tyr Glu Val Ser Asn Thr Glu Phe Glu Lys Phe Val Asn Ser Thr Gly
130 135 140

Tyr Leu Thr Glu Ala Glu Lys Phe Gly Asp Ser Phe Val Phe Glu Gly
145 150 155 160

Met Leu Ser Glu Gln Val Lys Thr Asn Ile Gln Gln Ala Val Ala Ala
165 170 175

Ala Pro Trp Trp Leu Pro Val Lys Gly Ala Asn Trp Arg His Pro Glu
180 185 190

Gly Pro Asp Ser Thr Ile Leu His Arg Pro Asp His Pro Val Leu His
195 200 205

Val Ser Trp Asn Asp Ala Val Ala Tyr Cys Thr Trp Ala Gly Lys Arg

210 215 220

Leu Pro Thr Glu Ala Glu Trp Glu Tyr Ser Cys Arg Gly Gly Leu His
 225 230 235 240

Asn Arg Leu Phe Pro Trp Gly Asn Lys Leu Gln Pro Lys Gly Gln His
 245 250 255

Tyr Ala Asn Ile Trp Gln Gly Glu Phe Pro Val Thr Asn Thr Gly Glu
 260 265 270

Asp Gly Phe Gln Gly Thr Ala Pro Val Asp Ala Phe Pro Pro Asn Gly
 275 280 285

Tyr Gly Leu Tyr Asn Ile Val Gly Asn Ala Trp Glu Trp Thr Ser Asp
 290 295 300

Trp Trp Thr Val His His Ser Val Glu Glu Thr Leu Asn Pro Lys Gly
 305 310 315 320

Pro Pro Ser Gly Lys Asp Arg Val Lys Lys Gly Gly Ser Tyr Met Cys
 325 330 335

His Arg Ser Tyr Cys Tyr Arg Tyr Arg Cys Ala Ala Arg Ser Gln Asn
 340 345 350

Thr Pro Asp Ser Ser Ala Ser Asn Leu Gly Phe Arg Cys Ala Ala Asp
 355 360 365

Arg Leu Pro Thr Met Asp
 370

<210> 2095
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 2095
 Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser
 1 5 10 15

Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys
 20 25 30

Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile
 35 40 45

Asn Arg Thr Ala Asn
 50

<210> 2096
 <211> 215
 <212> PRT
 <213> Homo sapiens

<220>

SECRET

<400> 2096

1376

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
35 40 45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
50 55 60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
65 70 75 80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
85 90 95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
100 105 110

Ile Ile Ser Asp Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg
115 120 125

<210> 2098

<211> 188

<212> PRT

<213> Homo sapiens

<400> 2098

Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
1 5 10 15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
20 25 30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
35 40 45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
50 55 60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
65 70 75 80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
85 90 95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
100 105 110

Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
115 120 125

Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
130 135 140

Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
145 150 155 160

Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
165 170 175

<210> 2101
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 2101
 Met Gly Trp Ile Asp Leu Leu Leu Pro Glu Leu Gly Ala Leu Arg Val
 1 5 10 15
 Phe Leu His Leu Phe Leu Val Ala Leu Arg Thr Lys Arg Trp Ile Phe
 20 25 30
 Arg Thr Leu Gly Gln Leu Thr Cys Val Asn Ile Leu Gly Asp Ser Arg
 35 40 45
 Lys Lys Arg Glu Cys Arg Leu Asn Lys Arg Gln Leu Gln Phe Gly Glu
 50 55 60
 Lys Thr Leu Gln Val Pro Glu Arg Leu Val Val Arg His Ser Pro Phe
 65 70 75 80

<210> 2102
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 2102
 Met Gln Val Ser Ser Trp Val Val Phe Gln Leu Val Trp Asn Ser Leu
 1 5 10 15
 Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg Phe Ser Leu Cys
 20 25 30
 Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp Val Arg Thr Ser
 35 40 45
 Ile

<210> 2103
 <211> 179
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2103
 Met Ala Gln Val Leu Ala Ser Glu Leu Ser Leu Val Ala Phe Ile Leu
 1 5 10 15


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100      105      110
Asn Ile Gln Leu Cys Phe Met Leu Thr His
115      120

<210> 2105
<211> 122
<212> PRT
<213> Homo sapiens

<400> 2105
Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro
1      5      10      15

Ile Leu Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro
20      25      30

Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln
35      40      45

Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp
50      55      60

Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr
65      70      75      80

Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu
85      90      95

Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro
100      105      110

Asn Ile Gln Leu Cys Phe Met Leu Thr His
115      120

<210> 2106
<211> 459
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (321)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (345)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2106
Met Gly Gly Pro Arg Ala Trp Ala Leu Leu Cys Leu Gly Leu Leu Leu
1      5      10      15

Pro Gly Gly Gly Ala Ala Trp Ser Ile Gly Ala Ala Pro Phe Ser Gly
20      25      30

1381

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Arg	Arg	Asn	Trp	Cys	Ser	Tyr	Val	Val	Thr	Arg	Thr	Ile	Ser	Cys	His
		35					40					45			
Val	Gln	Asn	Gly	Thr	Tyr	Leu	Gln	Arg	Val	Leu	Gln	Asn	Cys	Pro	Trp
	50					55					60				
Pro	Met	Ser	Cys	Pro	Gly	Ser	Ser	Tyr	Arg	Thr	Val	Val	Arg	Pro	Thr
	65				70					75					80
Tyr	Lys	Val	Met	Tyr	Lys	Ile	Val	Thr	Ala	Arg	Glu	Trp	Arg	Cys	Cys
				85					90					95	
Pro	Gly	His	Ser	Gly	Val	Ser	Cys	Glu	Glu	Val	Ala	Ala	Ser	Ser	Ala
				100				105						110	
Ser	Leu	Glu	Pro	Met	Trp	Ser	Gly	Ser	Thr	Met	Arg	Arg	Met	Ala	Leu
	115						120					125			
Arg	Pro	Thr	Ala	Phe	Ser	Gly	Cys	Leu	Asn	Cys	Ser	Lys	Val	Ser	Glu
	130					135						140			
Leu	Thr	Glu	Arg	Leu	Lys	Val	Leu	Glu	Ala	Lys	Met	Thr	Met	Leu	Thr
	145				150					155					160
Val	Ile	Glu	Gln	Pro	Val	Pro	Pro	Thr	Pro	Ala	Thr	Pro	Glu	Asp	Pro
				165					170					175	
Ala	Pro	Leu	Trp	Gly	Pro	Pro	Pro	Ala	Gln	Gly	Ser	Pro	Gly	Asp	Gly
				180				185						190	
Gly	Leu	Gln	Asp	Gln	Val	Gly	Ala	Trp	Gly	Leu	Pro	Gly	Pro	Thr	Gly
	195						200					205			
Pro	Lys	Gly	Asp	Ala	Gly	Ser	Arg	Gly	Pro	Met	Gly	Met	Arg	Gly	Pro
	210					215					220				
Pro	Gly	Pro	Gln	Gly	Pro	Pro	Gly	Ser	Pro	Gly	Arg	Ala	Gly	Ala	Val
	225				230					235					240
Gly	Thr	Pro	Gly	Glu	Arg	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly
				245					250					255	
Pro	Pro	Gly	Pro	Pro	Ala	Pro	Val	Gly	Pro	Pro	His	Ala	Arg	Ile	Ser
				260				265					270		
Gln	His	Gly	Asp	Pro	Leu	Leu	Ser	Asn	Thr	Phe	Thr	Glu	Thr	Asn	Asn
		275					280					285			
His	Trp	Pro	Gln	Gly	Pro	Thr	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Met
	290					295						300			
Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Thr	Gly	Val	Pro	Gly	Ser	Pro	Gly
	305				310					315					320
Xaa	Ile	Gly	Pro	Pro	Gly	Pro	Thr	Gly	Pro	Lys	Gly	Ile	Ser	Gly	His
				325					330					335	
Pro	Gly	Glu	Lys	Gly	Glu	Lys	Lys	Xaa	Leu	Arg	Gly	Glu	Pro	Gly	Pro
			340					345					350		

Gln Gly Ser Ala Gly Gln Arg Gly Glu Pro Gly Pro Lys Gly Asp Pro
 355 360 365
 Gly Glu Lys Ser His Trp Asn Gln Ser Trp Gly Leu Gly Gly Pro Cys
 370 375 380
 Arg His Arg His Pro Gln Pro Pro Ser Gly Gln Glu Gly Gly His Ala
 385 390 395 400
 Thr Asn Tyr Arg Asp Arg Gly Pro Gln Glu Pro Gly Arg Glu Arg Leu
 405 410 415
 Arg Val Val Ala Ala Pro Glu Ala Asp Gln Ala Arg Leu Pro Leu Leu
 420 425 430
 Pro Gly Leu Gly Gln Leu Pro Pro Gly Thr Ala Arg Pro Tyr Leu Leu
 435 440 445
 Met Ser Ser Gly Ser Leu Leu Pro Ser Arg Pro
 450 455

<210> 2107
 <211> 615
 <212> PRT
 <213> Homo sapiens

<400> 2107
 Met Ile Leu Phe Leu Leu Ala Phe Leu Leu Phe Cys Gly Leu Leu Phe
 1 5 10 15
 Tyr Ile Asn Leu Ala Asp His Trp Lys Ala Leu Ala Phe Arg Leu Glu
 20 25 30
 Glu Glu Gln Lys Met Arg Pro Glu Ile Ala Gly Leu Lys Pro Ala Asn
 35 40 45
 Pro Pro Val Leu Pro Ala Pro Gln Lys Ala Asp Thr Asp Pro Glu Asn
 50 55 60
 Leu Pro Glu Ile Ser Ser Gln Lys Thr Gln Arg His Ile Gln Arg Gly
 65 70 75 80
 Pro Pro His Leu Gln Ile Arg Pro Pro Ser Gln Asp Leu Lys Asp Gly
 85 90 95
 Thr Gln Glu Glu Ala Thr Lys Arg Gln Glu Ala Pro Val Asp Pro Arg
 100 105 110
 Pro Glu Gly Asp Pro Gln Arg Thr Val Ile Ser Trp Arg Gly Ala Val
 115 120 125
 Ile Glu Pro Glu Gln Gly Thr Glu Leu Pro Ser Arg Arg Ala Glu Val
 130 135 140
 Pro Thr Lys Pro Pro Leu Pro Pro Ala Arg Thr Gln Gly Thr Pro Val
 145 150 155 160

Thr Gly Leu Ser Pro Glu Ile Val His Phe Asn Leu Tyr Pro Gln Pro
485 490 495

Gly Arg Arg Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu
500 505 510

Arg Pro Glu Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly
515 520 525

Asp Arg Lys Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser
530 535 540

Arg Phe Thr Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val
545 550 555 560

Gln Asp Pro Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe
565 570 575

Leu Gly Glu Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro
580 585 590

Asn Leu Leu Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro
595 600 605

Leu Pro Ile Trp Thr Pro Ala
610 615

<210> 2108
<211> 404
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (175)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (192)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (239)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (309)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (335)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (389)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2108
 Met His Pro Ile Pro Ser Ser Phe Met Ile Lys Ala Val Ser Ser Phe
 1 5 10 15
 Leu Thr Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met
 20 25 30

Arg Leu Asp Ala Lys Lys Phe Val Thr Glu Leu Arg Arg Pro Val Ala
35 40 45

Val Arg Ala Lys Asp Ile Gly Ile Trp Tyr Asn Ile Leu Arg Gly Ile
50 55 60

Gly Lys Leu Ala Val Ile Ile Asn Ala Phe Val Ile Ser Phe Thr Ser
65 70 75 80

Asp Phe Ile Pro Arg Leu Val Tyr Leu Tyr Met Tyr Ser Lys Asn Gly
85 90 95

Thr Met His Gly Phe Val Asn His Thr Leu Ser Ser Phe Asn Val Ser
100 105 110

Asp Phe Gln Asn Gly Thr Ala Pro Asn Asp Pro Leu Asp Leu Gly Tyr
115 120 125

Glu Val Gln Ile Cys Arg Tyr Lys Asp Tyr Arg Glu Pro Pro Trp Ser
130 135 140

Glu Asn Lys Tyr Asp Ile Ser Lys Asp Phe Trp Ala Val Leu Ala Ala
145 150 155 160

Arg Leu Ala Phe Val Ile Val Phe Gln Asn Leu Val Met Phe Met Ser
165 170 175

Asp Phe Val Asp Trp Val Ile Pro Asp Ile Pro Lys Asp Ile Ser Gln
180 185 190

Gln Ile His Lys Glu Lys Val Leu Met Val Glu Leu Phe Met Arg Glu
195 200 205

Glu Gln Asp Lys Gln Gln Leu Leu Glu Thr Trp Met Glu Lys Glu Arg
210 215 220

Gln Lys Asp Glu Pro Pro Cys Asn His His Asn Thr Lys Ala Cys Pro
225 230 235 240

Asp Ser Leu Gly Ser Pro Ala Pro Ser His Ala Tyr His Gly Gly Val
245 250 255

Leu

<210> 2112
<211> 50
<212> PRT
<213> Homo sapiens

<400> 2112
Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly
1 5 10 15
Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala
20 25 30

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val
 35 40 45

Arg Arg
 50

<210> 2113
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 2113
 Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly
 1 5 10 15

Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala
 20 25 30

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val
 35 40 45

Arg Arg
 50

<210> 2114
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 2114
 Met Val Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro
 1 5 10 15

Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile
 20 25 30

Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala
 35 40 45

Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu
 50 55 60

Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser
 65 70

<210> 2115
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 2115
 Met Trp Pro Trp Trp Leu Met Val Glu Arg Thr Val Val Leu Leu Leu
 1 5 10 15

Ile Thr Tyr Leu Val Pro Val Gly Gly Ser Ala Val Gly Pro Pro Gly
 20 25 30
 Pro Gly Cys Asn Val Ser Thr Ser Pro Pro Pro Pro Ala Thr Arg Cys
 35 40 45
 Pro Asp Glu Ser Glu Leu Tyr Arg Asp Pro Gly Glu Ala Pro Leu Glu
 50 55 60
 Ala Asp Gln Ala Glu Arg Gly Ala Ala His Glu Gly Gly His Pro Gly
 65 70 75 80
 Arg Asp Pro Trp Gly Ala Arg Arg Gly Pro Pro Arg Cys Gly
 85 90

<210> 2116
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 2116
 Met Ala Ile Cys Ser Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe
 1 5 10 15
 Leu Glu Thr Leu Trp Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys
 20 25 30
 Ile Gly Leu Ala Ser Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile
 35 40 45
 Ile Gln Lys Val Lys Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met
 50 55 60
 Glu Cys Ser Leu Glu Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro
 65 70 75 80
 Ala Val Leu Thr Leu Glu Asp Thr Asp Val Ala Asn Gly Val Met Asn
 85 90 95
 Gly His Thr Pro Met His Leu Glu Pro Ala Pro Asn Phe Arg Met Glu
 100 105 110
 Pro Val Thr Ala Leu Gly Ile Leu Ser Leu Ile Leu Asn Ile Met Cys
 115 120 125
 Ala Ala Leu Asn Leu Ile Arg Gly Val His Leu Ala Glu His Ser Leu
 130 135 140
 Gln Val Ala His Glu Glu Ile Gly Asn Ile Leu Ala Phe Leu Val Pro
 145 150 155 160
 Phe Val Ala Cys Ile Phe Gln Asp Pro Arg Ser Trp Phe Cys Trp Leu
 165 170 175
 Asp Gln Thr Ser
 180

[illegible]

Met Trp Pro Arg Met Leu Ala Phe Ser Thr Trp Leu Glu Trp Leu Leu
1 5 10 15

Phe Ser Pro Leu Pro Gln Ser Val Gly Cys Pro Gly Pro Leu Glu Phe
20 25 30

Tyr Cys Val Gln Asp Arg Arg Pro Pro Ser Leu Pro Asp Gly Ala Asp
35 40 45

His Phe Ser Ser Pro Thr Arg Ile Thr Ser Ser Ser Ile Ser Pro Ala
50 55 60

Leu Ser Leu Gln Ala Pro Glu Ala Gly Gly Phe Leu Ser Ile Pro Gly
65 70 75 80

<400> 2118

Met His Asp Val Leu Phe Phe Leu Ser Phe Ser Leu Val Ala Cys Val
1 5 10 15

Lys Ala Gly Met Leu
20

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<210> 2119
<211> 291
<212> PRT
<213> Homo sapiens
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<400> 2119

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
20 25 30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
35 40 45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
50 55 60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val

Ser	Lys	His	Ala	Arg	Cys	Phe	Ile	Leu	Leu	Val	Phe	Leu	Ser	Cys	Gly	
50						55					60					
Leu	Arg	Glu	Gly	Arg	Asn	Ala	Leu	Ile	Ala	Ala	Gly	Thr	Gly	Ile	Val	
65					70					75					80	
Ile	Leu	Gly	His	Val	Glu	Asn	Ile	Phe	His	Asn	Phe	Lys	Gly	Leu		
				85					90					95		
Asp	Gly	Met	Thr	Cys	Asn	Leu	Arg	Ala	Lys	Ser	Phe	Ser	Ile	His	Phe	
			100					105					110			
Pro	Leu	Leu	Lys	Lys	Tyr	Ile	Glu	Ala	Ile	Gln	Trp	Ile	Tyr	Gly	Leu	
		115					120					125				
Ala	Thr	Pro	Leu	Ser	Val	Phe	Asp	Asp	Leu	Val	Ser	Trp	Asn	Gln	Thr	
	130					135					140					
Leu	Ala	Val	Ser	Leu	Phe	Ser	Pro	Ser	His	Val	Leu	Glu	Ala	Gln	Leu	
145					150					155					160	
Asn	Asp	Ser	Lys	Gly	Glu	Val	Leu	Ser	Val	Leu	Tyr	Gln	Met	Ala	Thr	
			165						170					175		
Thr	Thr	Glu	Val	Leu	Ser	Ser	Leu	Gly	Gln	Lys	Leu	Leu	Ala	Phe	Ala	
		180						185					190			
Gly	Leu	Ser	Leu	Val	Leu	Leu	Gly	Thr	Gly	Leu	Phe	Met	Lys	Arg	Phe	
		195					200					205				
Leu	Gly	Pro	Cys	Gly	Trp	Lys	Tyr	Glu	Asn	Ile	Tyr	Ile	Thr	Arg	Gln	
	210					215					220					
Phe	Val	Gln	Phe	Asp	Glu	Arg	Glu	Arg	His	Gln	Gln	Arg	Pro	Cys	Val	
225					230					235					240	
Leu	Pro	Leu	Asn	Lys	Glu	Glu	Arg	Arg	Lys	Phe	Ile	Ser	Gly	Phe	Gln	
			245						250					255		

Ser

<400> 2121

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
20 25 30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
35 40 45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
50 55 60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
65 70 75 80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
85 90 95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
100 105 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
115 120 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
130 135 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
145 150 155 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
165 170 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
180 185 190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
195 200 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
210 215 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val
225 230 235 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Tyr Val Ile Ile Pro Thr
245 250 255

Phe Trp Pro Thr Pro Lys Glu Arg Lys Asn Leu Gly Leu Phe Phe Leu
260 265 270

Pro Ile Leu Ile His Leu Cys Ile Trp Val Leu Xaa Ala Ala Val Asp
275 280 285

Tyr Leu Leu Tyr Arg Leu Ile Phe Ser Val Ser Lys Gln Phe Gln Ser
290 295 300

Leu Pro Gly Phe Glu Val His Leu Lys Leu His Gly Glu Lys Gln Gly
305 310 315 320

Thr Gln Asp Ile Ile His Asp Ser Ser Phe Asn Ile Ser Val Phe Glu
325 330 335

Pro Asn Cys Ile Pro Lys Pro Trp Gln Ala Leu Lys Leu Leu Ala His
340 345 350

<210> 2123
 <211> 259
 <212> PRT
 <213> Homo sapiens

<400> 2123

Met	Val	Ser	Cys	Ser	Ile	Leu	Ala	Leu	Thr	His	Leu	Leu	Phe	Glu	Phe
1				5					10					15	
Lys	Gly	Leu	Met	Gly	Thr	Ser	Thr	Val	Glu	Gln	Leu	Leu	Glu	Asn	Val
		20						25					30		
Cys	Leu	Leu	Leu	Ala	Ser	Arg	Thr	Arg	Asp	Val	Val	Lys	Ser	Ala	Leu
	35					40						45			
Gly	Phe	Ile	Lys	Val	Ala	Val	Thr	Val	Met	Asp	Val	Ala	His	Leu	Ala
	50					55				60					
Lys	His	Val	Gln	Leu	Val	Met	Glu	Ala	Ile	Gly	Lys	Leu	Ser	Asp	Asp
65				70					75						80
Met	Arg	Arg	His	Phe	Arg	Met	Lys	Leu	Arg	Asn	Leu	Phe	Thr	Lys	Phe
			85						90					95	
Ile	Arg	Lys	Phe	Gly	Phe	Glu	Leu	Val	Lys	Arg	Leu	Leu	Pro	Glu	Glu
		100						105					110		
Tyr	His	Arg	Val	Leu	Val	Asn	Ile	Arg	Lys	Ala	Glu	Ala	Arg	Ala	Lys
	115					120					125				
Arg	His	Arg	Ala	Leu	Ser	Gln	Ala	Ala	Val	Glu	Glu	Glu	Glu	Glu	Glu
	130					135					140				
Glu	Glu	Glu	Glu	Glu	Pro	Ala	Gln	Gly	Lys	Gly	Asp	Ser	Ile	Glu	Glu
145					150					155					160
Ile	Leu	Ala	Asp	Ser	Glu	Asp	Glu	Glu	Asp	Asn	Glu	Glu	Glu	Glu	Arg
			165						170					175	
Ser	Arg	Gly	Lys	Glu	Gln	Arg	Lys	Leu	Ala	Arg	Gln	Arg	Ser	Arg	Ala
		180						185					190		
Trp	Leu	Lys	Glu	Gly	Gly	Gly	Asp	Glu	Pro	Leu	Asn	Phe	Leu	Asp	Pro
	195						200					205			
Lys	Val	Ala	Gln	Arg	Val	Leu	Ala	Thr	Gln	Pro	Gly	Pro	Ala	Gly	Gln
	210					215					220				
Glu	Glu	Gly	Pro	Gln	Leu	Gln	Gly	Glu	Arg	Arg	Trp	Pro	Ala	Asp	His
225					230					235					240
Lys	Gly	Gly	Gly	Arg	Arg	Gln	Gln	Asp	Gly	Gly	Arg	Gly	Arg	Cys	Gln
				245					250					255	

Arg Arg Arg

<210> 2124

<211> 42

<212> PRT

<213> Homo sapiens

<400> 2124

Met Leu Trp Leu Gly Thr Ser Leu Ile Phe Ser Ser Phe Ser Ala Ser
1 5 10 15

Phe Asp Gly Val Pro Phe Leu Ser Ser Trp Leu Phe Trp Ser Ser Gly
20 25 30

Ser Ser Pro Asn Ser Leu Ile Pro Pro Phe
35 40

<210> 2125

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2125

Met Tyr Pro Pro Val Ala Pro Ser Phe Trp Gly Cys Val Cys Phe Phe
1 5 10 15

Trp Ala Val Pro Leu Val Cys Cys Arg Asp Ser Trp Lys Gly Leu Ser
20 25 30

Leu Phe Val Gly Ser Gly Gly Leu Gly Leu Val Glu His
35 40 45

<210> 2126

<211> 54

<212> PRT

<213> Homo sapiens

<400> 2126

Met Trp Pro Phe Leu His Leu Leu Asn Met Pro Phe Thr Leu Thr Gln
1 5 10 15

Val Val Ala Ser Pro Ser Ser Cys Ser Asn Trp Lys Pro Gln His Pro
20 25 30

Glu Met Pro Pro Pro Gln Ile His Cys Thr His Val Cys Leu Cys Met
35 40 45

Arg Val Cys Ala Arg Val
50

<210> 2127

<211> 136
 <212> PRT
 <213> Homo sapiens

<400> 2127

Met	Leu	Met	Leu	Leu	Thr	Leu	Leu	Val	Leu	Gly	Met	Val	Trp	Val	Ala
1				5						10				15	
Ser	Ala	Ile	Val	Asp	Lys	Asn	Lys	Ala	Asn	Arg	Glu	Ser	Leu	Tyr	Asp
			20					25					30		
Phe	Trp	Glu	Tyr	Tyr	Leu	Pro	Tyr	Leu	Tyr	Ser	Cys	Ile	Ser	Phe	Leu
		35					40					45			
Gly	Val	Leu	Leu	Leu	Leu	Gly	Glu	Cys	Thr	Gly	Ser	Gly	Arg	Glu	Trp
	50					55					60				
Ala	Gly	Ser	Leu	Asp	Gln	Ser	Asn	Gln	Ala	Arg	Arg	Lys	Gly	Asn	Gly
65					70					75					80
Gly	His	Val	Arg	Glu	Gly	Val	Glu	Ser	Arg	Val	Trp	Gln	Val	Thr	Gly
			85						90					95	
Ser	Cys	Pro	Tyr	Ser	Val	Tyr	Ser	Thr	Gly	Ser	Arg	Pro	His	Val	Leu
			100					105					110		
Arg	His	Trp	Glu	Ala	Ala	Ser	Gln	Ala	Pro	Ala	Ala	Gly	Arg	Pro	Gly
		115					120					125			
Gly	Ala	Ala	Val	Leu	Leu	Ser	Leu								
130						135									

<210> 2128
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 2128

Met	His	Trp	Thr	Phe	Ser	Ser	Ser	Leu	Gly	Cys	Leu	Tyr	His	Phe	Ser
1				5					10					15	
Leu	Ser	Phe	Ser	Gly	Leu	His	Thr	Val	Leu	Lys	Ser	Ser	Pro	Ser	Ser
			20					25					30		
Arg	Phe	Leu	Leu	Pro	Cys	Ser	Ser	Gln	Val	Thr	Gln	Pro	Ser	Pro	Val
	35						40					45			
Gly	Gln	Pro	Arg	Leu	Val	Val	Gln	Leu	Pro	Pro	Val	Lys	Val	Ile	Gly
	50					55					60				
His	Arg	Thr	Gly	Gln	Cys	Arg	Gly	Pro	Gly						
65					70										

<210> 2129
 <211> 253
 <212> PRT

<213> Homo sapiens

<400> 2129

Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser
1 5 10 15

Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp
20 25 30

Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys
35 40 45

Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr
50 55 60

Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg
65 70 75 80

Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg
85 90 95

Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr
100 105 110

Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly
115 120 125

Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro
130 135 140

Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys
145 150 155 160

Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu
165 170 175

His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val
180 185 190

Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val
195 200 205

Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro
210 215 220

Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn
225 230 235 240

Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala
245 250

<210> 2130

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2130

Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser

Leu Pro Met Val Asp Pro Cys Glu Cys Gln Glu Ala Ser Ser Ser Val
 35 40 45

Leu Glu Met Ile Ser Ala Thr Ile Leu
 50 55

<210> 2132
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 2132
 Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met
 1 5 10 15
 Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly
 20 25 30
 Ile Phe Ile Gly Pro Glu Gln Phe Leu
 35 40

<210> 2133
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 2133
 Met Ser Leu Glu Pro Ser Thr Ser Ser Phe Asn Ile Leu Leu Phe Pro
 1 5 10 15
 Ala Phe Leu Arg Val Phe Gly Trp Ala Leu Gly Trp Met Pro Trp Glu
 20 25 30
 Tyr Leu Tyr Leu Ser Ser Lys Val Thr Asn Gly Glu Thr Gly Thr Gln
 35 40 45
 Arg Gly Thr
 50

<210> 2134
 <211> 60
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids.

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2134

Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser
 1 5 10 15
 Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser
 20 25 30
 Ser Leu Ala Trp Lys His Gly Pro Gly Xaa Leu Trp Trp Pro Arg Arg
 35 40 45
 Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly
 50 55 60

<210> 2135

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2135

Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser
 1 5 10 15
 Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser
 20 25 30
 Ser Leu Ala Trp Lys His Gly Pro Gly Glu Leu Trp Trp Pro Arg Xaa
 35 40 45
 Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly
 50 55 60

<210> 2136

<211> 78

<212> PRT

<213> Homo sapiens

<400> 2136

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1 5 10 15
 Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
 20 25 30
 Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
 35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
65 70 75

<210> 2137
<211> 78
<212> PRT
<213> Homo sapiens

<400> 2137
Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
1 5 10 15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
20 25 30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
65 70 75

<210> 2138
<211> 144
<212> PRT
<213> Homo sapiens

<400> 2138
Met Ser Ala Val Ser Ala Pro Ala Leu Trp Gln Thr Trp Cys Val Pro
1 5 10 15

Ala Ala Arg Ala Trp Thr Ser Ser Thr Leu Arg His Asp Ala Val Ala
20 25 30

Arg Pro Asn Pro Ser Thr Ser Leu Thr Pro Gly Leu Leu Thr Ser Ser
35 40 45

Asp Ser Pro Arg Trp Pro Gly Leu Gln Glu Ala Pro Gly Arg Pro Cys
50 55 60

Ile Arg Leu Gly Arg Ser Glu Leu Cys Met Tyr Ile Tyr Thr Tyr Ile
65 70 75 80

Asp Thr Phe Ile Ile Tyr Thr His Ser Leu Tyr Ile Tyr Ile His Cys
85 90 95

Phe Leu Ala Pro Glu Leu Ile Trp Val Gln Ala His Phe Lys Thr Leu
100 105 110

Pro Gly Gly Gly Cys Phe Phe Ser Gly Phe Leu Ala Arg Glu Glu Gly

125

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<210> 2139
<211> 151
<212> PRT
<213> Homo sapiens

<400> 2139
Met Leu His Trp Val Leu Ser Phe Phe Phe Leu Leu Ser Cys Pro Arg
 1              5              10              15

Thr Glu Gly Leu Pro Gly Leu Tyr Cys Pro Gly Cys Ser Gln Cys Pro
      20              25              30

Gly Arg Gly Met Trp Pro Gly Asp Pro Gly Pro Gly Ile Gln Gly Pro
      35              40              45

Gly Leu Asp Leu Arg Thr Gly Met Glu Ala Thr Gly Ala Gln Gln Pro
      50              55              60

Thr Leu Ser Ser Pro His Cys Leu Leu Ser Leu Pro Thr Leu Pro Ala
      65              70              75              80

Arg Ala Val Gln Leu Arg Trp Asp Leu Ser Ile Ser Arg Ala Gly Gly
      85              90              95

Arg Val Ala Val Leu Gly Leu Cys Leu Glu Pro Gly Gly Ser Leu Leu
      100              105              110

Leu Pro Pro Ser Ala Leu Pro Glu Thr Asp Pro Cys Ala Ala Cys Pro
      115              120              125

Pro Cys Pro Phe Val Pro Met Ser Gly Gly Gly Gly Arg Pro Thr Val
      130              135              140

Pro Glu Ala Gly His Gln Pro
      145              150

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<400> 2140
Met Pro Pro Tyr Thr Pro Phe Phe Gly Thr Arg Ala Leu Leu Ser Val
  1                      5              10                15
Ser Leu Pro Pro Pro Cys Met Leu His Trp Val Leu Ser Phe Phe Phe
      20                    25            30
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1405

Tyr Ala Phe Val Leu Phe Pro Val Ser Ser Arg Trp Gln Gly Gly Asp
85 90 95
Phe Cys Xaa Ile Cys Cys Cys Phe Pro Gln Cys Leu Gly Arg Cys Leu
100 105 110
Glu His Thr Arg Cys Ser Ile Asn Pro Xaa
115 120

<210> 2147
<211> 99
<212> PRT
<213> Homo sapiens

<400> 2147
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His
85 90 95
Pro Gly Asn

<210> 2148
<211> 245
<212> PRT
<213> Homo sapiens

<400> 2148
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225 230 235 240

Ile Phe Pro Ser Ala
245

<210> 2149
<211> 57
<212> PRT
<213> Homo sapiens

<400> 2149
Met Gly His Leu His Trp Gly Val Ser Gly Asn Phe Phe Phe Pro Arg
1 5 10 15

Leu Ser Leu Phe Leu Leu Phe Ala Trp Leu Gln Ile Thr Gln Ala Asn
20 25 30

Glu Pro Arg Leu Pro Gly Lys Tyr Ser Ile Lys Ala Ile Lys Ile Thr
35 40 45

Ile Cys Ile Thr Phe Arg Thr Ser Ala
50 55

<210> 2150
<211> 152
<212> PRT
<213> Homo sapiens

<400> 2150

Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu
1 5 10 15

Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu
20 25 30

Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly
35 40 45

Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys
50 55 60

Gln Leu Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr
65 70 75 80

Ala Asn Arg Thr Ala Leu Phe Leu Asp Leu Leu Ala Gln Gly Asn Ala
85 90 95

Ser Leu Arg Leu Gln Ser Val Arg Val Ala Asp Glu Gly Gln Leu His
100 105 110

Leu Leu Arg Glu His Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala
115 120 125

Gly Gly Arg Ser Leu Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln
130 135 140

Gly Pro Ala Ala Arg Gly Thr Trp
145 150

<210> 2151

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2151

Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu Leu Phe Ser Ser Leu
1 5 10 15

Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp
20 25 30

Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn
35 40 45

Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr
50 55 60

Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr
65 70 75 80

60

1413

Phe Ile Phe His His Cys Asn His Cys His Glu Glu His Asp His Gly
20 25 30

Pro Glu Ala Leu His Arg Gln His Arg Gly Met Thr Glu Leu Glu Pro
35 40 45

Ser Lys Phe Ser Lys Gln Ala Ala Glu Asn Glu Lys Lys Tyr Tyr Ile
50 55 60

Glu Lys Leu Phe Glu Arg Tyr Gly Glu Asn Gly Arg Leu Ser Phe Phe
65 70 75 80

Gly Leu Glu Lys Leu Leu Thr Asn Leu Gly Leu Gly Glu Arg Lys Val
85 90 95

Val Glu Ile Asn His Glu Asp Leu Gly His Asp His Val Ser His Leu
100 105 110

Asp Ile Leu Ala Val Gln Glu Gly Lys His Phe His Ser His Asn His
115 120 125

Gln His Ser His Asn His Leu Asn Ser Glu Asn Gln Thr Val Thr Ser
130 135 140

Val Ser Thr Lys Arg Asn His Lys Cys Asp Pro Glu Lys Glu Thr Val
145 150 155 160

Glu Val Ser Val Lys Ser Asp Asp Lys His Met His Asp His Asn His
165 170 175

Arg Leu Arg His His His Arg Leu His His His Leu Asp His Asn Asn
180 185 190

Thr His His Phe His Asn Asp Ser Ile Thr Pro Ser Glu Arg Gly Glu
195 200 205

Pro Ser Asn Glu Pro Ser Thr Glu Thr Asn Lys Thr Gln Glu Gln Ser
210 215 220

Asp Val Lys Leu Pro Lys Gly Lys Arg Lys Lys Lys Gly Arg Lys Ser
225 230 235 240

Asn Glu Asn Ser Glu Val Ile Thr Pro Gly Phe Pro Pro Asn His Asp
245 250 255

Gln Gly Glu Gln Tyr Glu His Asn Arg Val His Lys Pro Asp Arg Val
260 265 270

His Asn Pro Gly His Ser His Val His Leu Pro Glu Arg Asn Gly His
275 280 285

Asp Pro Gly Arg Gly His Gln Asp Leu Asp Pro Asp Asn Glu Gly Glu
290 295 300

Leu Arg His Thr Arg Lys Arg Glu Ala Pro His Val Lys Asn Asn Ala
305 310 315 320

Ile Ile Ser Leu Arg Lys Asp Leu Asn Glu Asp Asp His His His Glu
325 330 335

Cys Leu Asn Val Thr Gln Leu Leu Lys Tyr Tyr Gly His Gly Ala Asn
 340 345 350
 Ser Pro Ile Ser Thr Asp Leu Phe Thr Tyr Leu Cys Pro Ala Leu Leu
 355 360 365
 Tyr Gln Ile Asp Ser Arg Leu Cys Ile Glu His Phe Asp Lys Leu Leu
 370 375 380
 Val Glu Asp Ile Asn Lys Asp Lys Asn Leu Val Pro Glu Asp Glu Ala
 385 390 395 400
 Asn Ile Gly Ala Ser Ala Trp Ile Cys Gly Ile Ile Ser Ile Thr Val
 405 410 415
 Ile Ser Leu Leu Ser Leu Leu Gly Val Ile Leu Val Pro Ile Ile Asn
 420 425 430
 Gln Gly Cys Phe Lys Phe Leu Leu Thr Phe Leu Val Ala Leu Ala Val
 435 440 445
 Gly Thr Met Ser Gly Asp Ala Leu Leu His Leu Leu Pro His Ser Gln
 450 455 460
 Gly Gly His Asp His Ser His Gln His Ala His Gly His Gly His Ser
 465 470 475 480
 His Gly His Glu Ser Asn Lys Phe Leu Glu Glu Tyr Asp Ala Val Leu
 485 490 495
 Lys Gly Leu Val Ala Leu Gly Gly Ile Tyr Leu Leu Phe Ile Ile Glu
 500 505 510
 His Cys Ile Arg Met Phe Lys His Tyr Lys Gln Gln Arg Gly Lys Gln
 515 520 525
 Lys Trp Phe Met Lys Gln Asn Thr Glu Glu Ser Thr Ile Gly Arg Lys
 530 535 540
 Leu Ser Asp His Lys Leu Asn Asn Thr Pro Asp Ser Asp Trp Leu Gln
 545 550 555 560
 Leu Lys Pro Leu Ala Gly Thr Asp Asp Ser Val Val Ser Glu Asp Arg
 565 570 575
 Leu Asn Glu Thr Glu Leu Thr Asp Leu Glu Gly Gln Gln Glu Ser Pro
 580 585 590
 Pro Lys Asn Tyr Leu Cys Ile Glu Glu Glu Lys Ile Ile Asp His Ser
 595 600 605
 His Ser Asp Gly Leu His Thr Ile His Glu His Asp Leu His Ala Ala
 610 615 620
 Ala His Asn His His Gly Glu Asn Lys Thr Val Leu Arg Lys His Asn
 625 630 635 640
 His Gln Trp His His Lys His Ser His His Ser His Gly Pro Cys His
 645 650 655

Ser Gly Ser Asp Leu Lys Glu Thr Gly Ile Ala Asn Ile Ala Trp Met
660 665 670

Val Ile Met Gly Asp Gly Ile His Asn Phe Ser Asp Gly Leu Ala Ile
675 680 685

Gly Ala Ala Phe Ser Ala Gly Leu Thr Gly Gly Ile Ser Thr Ser Ile
690 695 700

Ala Val Phe Cys His Glu Leu Pro His Glu Leu Gly Asp Phe Ala Val
705 710 715 720

Leu Leu Lys Ala Gly Met Thr Val Lys Gln Ala Ile Val Tyr Asn Leu
725 730 735

Leu Ser Ala Met Met Ala Tyr Ile Gly Met Leu Ile Gly Thr Ala Val
740 745 750

Gly Gln Tyr Ala Asn Asn Ile Thr Leu Trp Ile Phe Ala Val Thr Ala
755 760 765

Gly Met Phe Leu Tyr Val Ala Leu Val Asp Met Leu Pro Glu Met Leu
770 775 780

His Gly Asp Gly Asp Asn Glu Glu His Gly Phe Cys Pro Val Gly Gln
785 790 795 800

Phe Ile Leu Gln Asn Leu Gly Leu Leu Phe Gly Phe Ala Ile Met Leu
805 810 815

Val Ile Ala Leu Tyr Glu Asp Lys Ile Val Phe Asp Ile Gln Phe
820 825 830

<210> 2154
<211> 480
<212> PRT
<213> Homo sapiens

<400> 2154
Met Leu Phe Arg Asn Arg Phe Leu Leu Leu Leu Ala Leu Ala Ala Leu
1 5 10 15

Leu Ala Phe Val Ser Leu Ser Leu Gln Phe Phe His Leu Ile Pro Val
20 25 30

Ser Thr Pro Lys Asn Gly Met Ser Ser Lys Ser Arg Lys Arg Ile Met
35 40 45

Pro Asp Pro Val Thr Glu Pro Pro Val Thr Asp Pro Val Tyr Glu Ala
50 55 60

Leu Leu Tyr Cys Asn Ile Pro Ser Val Ala Glu Arg Ser Met Glu Gly
65 70 75 80

His Ala Pro His His Phe Lys Leu Val Ser Val His Val Phe Ile Arg
85 90 95

His Gly Asp Arg Tyr Pro Leu Tyr Val Ile Pro Lys Thr Lys Arg Pro
100 105 110

Glu Ile Asp Cys Thr Leu Val Ala Asn Arg Lys Pro Tyr His Pro Lys
115 120 125

Leu Glu Ala Phe Ile Ser His Met Ser Lys Gly Ser Gly Ala Ser Phe
130 135 140

Glu Ser Pro Leu Asn Ser Leu Pro Leu Tyr Pro Asn His Pro Leu Cys
145 150 155 160

Glu Met Gly Glu Leu Thr Gln Thr Gly Val Val Gln His Leu Gln Asn
165 170 175

Gly Gln Leu Leu Arg Asp Ile Tyr Leu Lys Lys His Lys Leu Leu Pro
180 185 190

Asn Asp Trp Ser Ala Asp Gln Leu Tyr Leu Glu Thr Thr Gly Lys Ser
195 200 205

Arg Thr Leu Gln Ser Gly Leu Ala Leu Leu Tyr Gly Phe Leu Pro Asp
210 215 220

Phe Asp Trp Lys Lys Ile Tyr Phe Arg His Gln Pro Ser Ala Leu Phe
225 230 235 240

Cys Ser Gly Ser Cys Tyr Cys Pro Val Arg Asn Gln Tyr Leu Glu Lys
245 250 255

Glu Gln Arg Arg Gln Tyr Leu Leu Arg Leu Lys Asn Ser Gln Leu Glu
260 265 270

Lys Thr Tyr Gly Glu Met Ala Lys Ile Val Asp Val Pro Thr Lys Gln
275 280 285

Leu Arg Ala Ala Asn Pro Ile Asp Ser Met Leu Cys His Phe Cys His
290 295 300

Asn Val Ser Phe Pro Cys Thr Arg Asn Gly Cys Val Asp Met Glu His
305 310 315 320

Phe Lys Val Ile Lys Thr His Gln Ile Glu Asp Glu Arg Glu Arg Arg
325 330 335

Glu Lys Lys Leu Tyr Phe Gly Tyr Ser Leu Leu Gly Ala His Pro Ile
340 345 350

Leu Asn Gln Thr Ile Gly Arg Met Gln Arg Ala Thr Glu Gly Arg Lys
355 360 365

Glu Glu Leu Phe Ala Leu Tyr Ser Ala His Asp Val Thr Leu Ser Pro
370 375 380

Val Leu Ser Ala Leu Gly Leu Ser Glu Ala Arg Phe Pro Arg Phe Ala
385 390 395 400

Ala Arg Leu Ile Phe Glu Leu Trp Gln Asp Arg Glu Lys Pro Ser Glu
405 410 415

[illegible][illegible]

1418

<400> 2156
Met Tyr Met Gln Asp Tyr Trp Arg Thr Trp Leu Lys Gly Leu Arg Gly
1 5 10 15
Phe Phe Phe Val Gly Val Leu Phe Ser Ala Val Ser Ile Ala Ala Phe
20 25 30
Cys Thr Phe Leu Val Leu Ala Ile Thr Arg His Gln Ser Leu Thr Asp
35 40 45
Pro Thr Ser Tyr Tyr Leu Ser Ser Val Trp Ser Phe Ile Ser Phe Lys
50 55 60
Trp Ala Phe Leu Leu Ser Leu Tyr Ala His Arg Tyr Arg Ala Asp Phe
65 70 75 80
Ala Asp Ile Ser Ile Leu Ser Asp Phe
85

<210> 2157
<211> 56
<212> PRT
<213> Homo sapiens

<400> 2157
Met Arg Gly His Ile Thr Thr Leu Leu Thr Thr Ser Phe Leu Val Phe
1 5 10 15
Gly Leu His Ile Ile Phe Phe Leu Asn Ile Ser Cys Phe Asn Phe Arg
20 25 30
Val Phe Ile Leu Phe Glu Thr Arg Pro Glu Asp Ser Arg Leu Tyr Arg
35 40 45
Glu Arg Pro Val Leu Pro Arg Tyr
50 55

<210> 2158
<211> 50
<212> PRT
<213> Homo sapiens

<400> 2158
Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu
1 5 10 15
Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg
20 25 30
Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln
35 40 45
Thr Ser
50

<210> 2159
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 2159
 Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu
 1 5 10 15
 Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg
 20 25 30
 Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln
 35 40 45
 Thr Ser
 50

<210> 2160
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 2160
 Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys
 1 5 10 15
 Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Arg Pro Ala Lys Ala Trp
 20 25 30
 Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn
 35 40 45
 Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys Lys Pro Cys Lys
 50 55 60
 Leu Glu Pro Glu Pro Arg Leu Trp Val Val Pro Gly Ala Leu Pro Gln
 65 70 75 80
 Val

<210> 2161
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 2161
 Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr Phe Asn Cys Ser Val
 1 5 10 15
 Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val Ser Val Phe Ile Leu
 20 25 30
 Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe Leu His Ser Glu Gln
 1420

09033245 "041201
 102240" 54233300

45

Phe Ala Asn Ile Gln Glu Asn Ser Asn
65 70

<213> Homo sapiens

Ile

<212> PRT

<213> Homo sapiens

<400> 2163

Met Ala Pro Glu Val Met Glu Gln Val Arg Gly Tyr Asp Phe Lys Ala
1 5 10 15
Asp Ile Trp Ser Phe Gly Ile Thr Ala Ile Glu Leu Ala Thr Gly Ala
20 25 30
Ala Pro Tyr His Lys Tyr Pro Pro Met Lys Val Leu Met Leu Thr Leu
35 40 45
Gln Asn Asp Pro Pro Ser Leu Glu Thr Gly Val Gln Asp Lys Glu Met
50 55 60
Leu Lys Lys Tyr Gly Lys Ser Phe Arg Lys Met Ile Ser Leu Cys Leu
65 70 75 80
Gln Lys Asp Pro Glu Lys Arg Pro Thr Ala Ala Glu Leu Leu Arg His
85 90 95
Lys Phe Phe Gln Lys Ala Lys Asn Lys Glu Phe Leu Gln Glu Lys Thr
100 105 110
Leu Gln Arg Ala Pro Thr Ile Ser Glu Arg Ala Lys Lys Val Arg Arg
115 120 125
Val Pro Gly Ser Cys Pro
130

<210> 2164

<211> 334

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2164

Met Glu Pro Gly Pro Thr Ala Ala Gln Arg Arg Cys Ser Leu Pro Pro
1 5 10 15
Trp Leu Pro Leu Gly Leu Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala
20 25 30
Leu Pro Phe Gly Ser Ser Pro His Arg Val Phe His Asp Leu Leu Ser
35 40 45
Glu Gln Gln Leu Leu Glu Val Glu Asp Leu Ser Leu Ser Leu Leu Gln
50 55 60
Gly Gly Gly Leu Gly Pro Leu Ser Leu Pro Pro Asp Leu Pro Asp Leu
65 70 75 80
Asp Pro Glu Cys Arg Glu Leu Leu Leu Asp Phe Ala Asn Ser Ser Ala
85 90 95

1422

09833245 "041201

Glu Leu Thr Gly Cys Leu Val Arg Xaa Ala Arg Pro Val Arg Leu Cys
100 105 110

Gln Thr Cys Tyr Pro Leu Phe Gln Gln Val Val Ser Lys Met Asp Asn
115 120 125

Ile Ser Arg Ala Ala Gly Asn Thr Ser Glu Ser Gln Ser Cys Ala Arg
130 135 140

Ser Leu Leu Met Ala Asp Arg Met Gln Ile Val Val Ile Leu Ser Glu
145 150 155 160

Phe Phe Asn Thr Thr Trp Gln Glu Ala Asn Cys Ala Asn Cys Leu Thr
165 170 175

Asn Asn Ser Glu Glu Leu Ser Asn Ser Thr Val Tyr Phe Leu Asn Leu
180 185 190

Phe Asn His Thr Leu Thr Cys Phe Glu His Asn Leu Gln Gly Asn Ala
195 200 205

His Ser Leu Leu Gln Thr Lys Asn Tyr Ser Glu Val Cys Lys Asn Cys
210 215 220

Arg Glu Ala Tyr Lys Thr Leu Ser Ser Leu Tyr Ser Glu Met Gln Lys
225 230 235 240

Met Asn Glu Leu Glu Asn Lys Ala Glu Pro Gly Thr His Leu Cys Ile
245 250 255

Asp Val Glu Asp Ala Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr
260 265 270

Phe Asn Cys Ser Val Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val
275 280 285

Ser Val Phe Ile Leu Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe
290 295 300

Leu His Ser Glu Gln Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu
305 310 315 320

Lys Ser Ser Thr Ser Phe Ala Asn Ile Gln Glu Asn Ser Asn
325 330

<210> 2165

<211> 49

<212> PRT

<213> Homo sapiens

<400> 2165

Met Val Leu Val Phe Ala Tyr Leu Cys Val Leu Leu Ile Val Cys Trp
1 5 10 15

Val Thr Ser Lys Thr Ser Leu Ala Leu Lys Tyr Thr Val Tyr Lys Asn
20 25 30

Phe Lys Arg Leu Ile Trp Asn Lys Ser Ile Leu Ile Ile Thr Leu Thr
 35 40 45

Pro

<210> 2166
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 2166
 Met Ser Leu Ser Ile Leu Val Ala Leu Ser Leu Gln Ile Leu Phe Leu
 1 5 10 15
 Phe Thr Ile Leu Lys Cys Met Leu Ala Lys Trp Val Asp Phe Gln Ile
 20 25 30
 Lys Cys Ser Phe His Lys Ser Phe Val Met Val Phe Trp Ser Glu Met
 35 40 45
 His Phe His Phe Ser Phe Leu Phe Leu Leu Ser Ile Leu Ser Phe Phe
 50 55 60
 Pro Asn Lys Ile Tyr Pro Gly Asp Tyr Ile Cys
 65 70 75

<210> 2167
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 2167
 Met Leu Trp Ala Leu Asp Ser Leu Leu Phe Phe Ser His Ala Gln Leu
 1 5 10 15
 Val Pro Leu Gly Gly Gly Glu Glu Trp Gly Ser Pro Gly Leu Gly Leu
 20 25 30
 His Ser Ile Ile Pro Ser Gln Ala Ser Gln Gly Val Ser Ala Pro Ala
 35 40 45
 Gln Asp Leu Ala Gly Arg Ala Pro Tyr Arg Glu Ser Leu Gly Arg Leu
 50 55 60
 Ser Arg Leu Met Ala Gly Pro Ala Arg Gly Val Leu Arg Pro Ala Leu
 65 70 75 80
 Arg Thr Cys Pro Leu Phe
 85

<210> 2168
 <211> 152
 <212> PRT

<213> Homo sapiens

<400> 2168

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Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1           5           10           15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
          20           25           30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Asn Arg Ala Trp Gly Ala
          35           40           45

Arg Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe
          50           55           60

Pro Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly
          65           70           75           80

Gln Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr
          85           90           95

Glu Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser
          100           105           110

Leu Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg
          115           120           125

Leu Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp
          130           135           140

Gln Asp His Ile Tyr His Pro Gln
          145           150

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<210> 2169

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2169

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Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1           5           10           15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
          20           25           30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
          35           40           45

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
          50           55           60

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
          65           70           75           80

Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
          85           90           95

Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln
          1425

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09833245.041201

100 105 110
Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu
115 120 125
Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln
130 135 140
<210> 2170
<211> 453
<212> PRT
<213> Homo sapiens
<400> 2170
Met Lys Leu Leu Val Ile Leu Ile Phe Ser Gly Leu Ile Thr Cys Cys
1 5 10 15
Gly Gly Asn Ser Ser His Ser Leu Pro Ser Lys Leu Leu Leu Val Ser
20 25 30
Phe Asp Gly Phe Arg Ala Asp Tyr Leu Gln Asn Tyr Glu Phe Pro His
35 40 45
Leu Gln Asn Phe Ile Lys Glu Gly Val Leu Val Glu His Val Lys Asn
50 55 60
Val Phe Ile Thr Lys Thr Phe Pro Asn His Tyr Ser Ile Val Thr Gly
65 70 75 80
Leu Tyr Glu Glu Ser His Gly Ile Val Ala Asn Ser Met Tyr Asp Val
85 90 95
Ile Thr Lys Lys His Phe Ser Asp Phe Asp Asp Lys Asp Pro Phe Trp
100 105 110
Trp Asn Glu Ala Val Pro Ile Trp Val Thr Asn Gln Leu Gln Glu Asn
115 120 125
Arg Ser Ser Ala Ala Ala Met Trp Pro Gly Thr Asp Val Pro Ile His
130 135 140
Asn Thr Thr Pro Ser Tyr Phe Met Asn Tyr Ser Ser Ser Val Ser Phe
145 150 155 160
Glu Glu Arg Leu Asn Asn Ile Thr Met Trp Leu Met Asn Ser Asn Pro
165 170 175
Pro Val Thr Phe Ala Thr Leu Tyr Trp Glu Glu Pro Asp Ala Ser Gly
180 185 190
His Lys Tyr Gly Pro Glu Asp Lys Glu Asn Met Tyr Arg Val Leu Lys
195 200 205
Glu Val Asp Asp Leu Ile Gly Glu Leu Val His Lys Leu Lys Val Leu
210 215 220
Gly Leu Trp Glu Asn Leu Asn Val Ile Ile Thr Ser Asp His Gly Met
225 230 235 240

35					40					45					
Cys	Asn	Val	Thr	Gly	Tyr	Glu	Gly	Pro	Ala	Gln	Gln	Asn	Phe	Glu	Trp
50						55					60				
Phe	Leu	Tyr	Arg	Pro	Glu	Ala	Pro	Asp	Thr	Ala	Leu	Gly	Ile	Val	Ser
65					70					75					80
Thr	Lys	Asp	Thr	Gln	Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val
				85					90					95	
Ala	Gly	Glu	Val	Gln	Val	Gln	Arg	Leu	Gln	Gly	Asp	Ala	Val	Val	Leu
			100					105					110		
Lys	Ile	Ala	Arg	Leu	Gln	Ala	Gln	Asp	Ala	Gly	Ile	Tyr	Glu	Cys	His
		115					120					125			
Thr	Pro	Ser	Thr	Asp	Thr	Arg	Tyr	Leu	Gly	Ser	Tyr	Ser	Gly	Lys	Val
	130					135					140				
Glu	Leu	Arg	Val	Leu	Pro	Asp	Val	Leu	Gln	Val	Ser	Ala	Ala	Pro	Pro
145					150					155					160
Gly	Pro	Arg	Gly	Arg	Gln	Ala	Pro	Thr	Ser	Pro	Pro	Arg	Met	Thr	Val
				165					170					175	
His	Glu	Gly	Gln	Glu	Leu	Ala	Leu	Gly	Cys	Leu	Ala	Arg	Thr	Ser	Thr
			180					185					190		
Gln	Lys	His	Thr	His	Leu	Ala	Val	Ser	Phe	Gly	Arg	Ser	Val	Pro	Glu
		195					200					205			
Ala	Pro	Val	Gly	Arg	Ser	Thr	Leu	Gln	Glu	Val	Val	Gly	Ile	Arg	Ser
	210					215					220				
Asp	Leu	Ala	Val	Glu	Ala	Gly	Ala	Pro	Tyr	Ala	Glu	Arg	Leu	Ala	Ala
225					230					235					240
Gly	Glu	Leu	Arg	Leu	Gly	Lys	Glu	Gly	Thr	Asp	Arg	Tyr	Arg	Met	Val
				245					250					255	
Val	Gly	Gly	Ala	Gln	Ala	Gly	Asp	Ala	Gly	Thr	Tyr	His	Cys	Thr	Ala
			260					265					270		
Ala	Glu	Trp	Ile	Gln	Asp	Pro	Asp	Gly	Ser	Trp	Ala	Gln	Ile	Ala	Glu
	275					280					285				
Lys	Arg	Ala	Val	Leu	Ala	His	Val	Asp	Val	Gln	Thr	Leu	Ser	Ser	Gln
	290					295					300				
Leu	Ala	Val	Thr	Val	Gly	Pro	Gly	Glu	Arg	Arg	Ile	Gly	Pro	Gly	Glu
305					310					315					320
Pro	Leu	Glu	Leu	Leu	Cys	Asn	Val	Ser	Gly	Ala	Leu	Pro	Pro	Ala	Gly
				325					330					335	
Arg	His	Ala	Ala	Tyr	Ser	Val	Gly	Trp	Glu	Met	Ala	Pro	Ala	Gly	Ala
			340					345					350		
Pro	Gly	Pro	Gly	Arg	Leu	Val	Ala	Gln	Leu	Asp	Thr	Glu	Gly	Val	Gly

355 360 365

Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val
370 375 380

Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp
385 390 395 400

Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
405 410 415

Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val
420 425 430

His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala
435 440 445

Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile
450 455 460

Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp
465 470 475 480

Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu
485 490 495

Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro
500 505 510

Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg
515 520 525

Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys
530 535 540

Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
545 550 555 560

Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala
565 570 575

Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu
580 585 590

Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys
595 600 605

Arg Leu Arg Lys Arg
610

<210> 2173
<211> 122
<212> PRT
<213> Homo sapiens

<400> 2173
Met Trp Gly Trp Gly Ser Leu Val Ser Ala Arg Gly Gly Trp Gly Val
1 5 10 15

Phe Ile Tyr Leu Tyr Met Gly Leu Tyr Ile Val Leu Trp Gly Met Gly
 20 25 30
 Glu Pro Ala Gly Gly Glu Asn Pro Pro Leu Ser Pro His Pro Pro Gly
 35 40 45
 Arg Ala Asn Val Lys Leu Leu Ile Phe Val Leu Tyr Ile Phe Tyr Ile
 50 55 60
 Asn Ile Ser Ile Phe Phe Leu Gln Asn Gln Phe Ile Asn Gly Arg Gly
 65 70 75 80
 Val Trp Gly Gly His Met Glu Leu Pro Leu Trp Gly Gly Pro Leu His
 85 90 95
 Tyr Pro Thr Tyr Arg Pro Phe Pro His Pro Pro Pro His Ser Pro Pro
 100 105 110
 Pro Gly Cys Asp Cys Cys Lys Met Gly Val
 115 120

<210> 2174
 <211> 613
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (507)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2174
 Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
 20 25 30
 Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
 35 40 45
 Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
 50 55 60
 Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
 65 70 75 80
 Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
 85 90 95
 Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
 100 105 110
 Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
 115 120 125
 Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val
 1431

T02F70" 542EE860

130		135		140
Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro				
145		150		155
Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val				
	165		170	175
His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr				
	180		185	190
Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu				
	195		200	205
Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser				
	210		215	220
Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala				
	225		230	235
Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val				
	245		250	255
Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala				
	260		265	270
Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu				
	275		280	285
Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln				
	290		295	300
Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu				
	305		310	315
Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly				
	325		330	335
Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala				
	340		345	350
Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly				
	355		360	365
Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val				
	370		375	380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp				
	385		390	395
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly				
	405		410	415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val				
	420		425	430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala				
	435		440	445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile				

Glu Leu Gln His Ser Ile Pro Leu Gly Pro Asn Val Leu Pro Val Cys
 325 330 335
 Leu Pro Asp Asn Glu Thr Leu Tyr Arg Ser Gly Leu Leu Gly Tyr Val
 340 345 350
 Ser Gly Phe Gly Met Glu Met Gly Trp Leu Thr Thr Glu Leu Lys Tyr
 355 360 365
 Ser Arg Leu Pro Val Ala Pro Arg Glu Ala Cys Asn Ala Trp Leu Gln
 370 375 380
 Lys Arg Gln Arg Pro Glu Lys Lys Lys Lys Lys Lys
 385 390 395

<210> 2177
 <211> 172
 <212> PRT
 <213> Homo sapiens

<400> 2177
 Gly Thr Arg Thr Glu Arg Asp Glu Leu Leu Lys Asp Leu Gln Gln Ser
 1 5 10 15
 Ile Ala Arg Glu Pro Ser Ala Pro Ser Ile Pro Thr Pro Ala Tyr Gln
 20 25 30
 Ser Leu Pro Ala Gly Gly His Ala Pro Thr Pro Pro Thr Pro Ala Pro
 35 40 45
 Arg Thr Met Pro Pro Thr Lys Pro Gln Pro Pro Ala Arg Pro Pro Pro
 50 55 60
 Pro Val Leu Pro Ala Asn Arg Ala Pro Ser Ala Thr Ala Pro Ser Pro
 65 70 75 80
 Val Gly Ala Gly Thr Ala Ala Pro Ala Pro Ser Gln Thr Pro Gly Ser
 85 90 95
 Ala Pro Pro Pro Gln Ala Gln Gly Pro Pro Tyr Pro Thr Tyr Pro Gly
 100 105 110
 Tyr Pro Gly Tyr Cys Gln Met Pro Met Pro Met Gly Tyr Asn Pro Tyr
 115 120 125
 Ala Tyr Gly Gln Tyr Asn Met Pro Tyr Pro Pro Val Tyr His Gln Ser
 130 135 140
 Pro Gly Gln Ala Pro Tyr Pro Gly Pro Gln Gln Pro Ser Tyr Pro Phe
 145 150 155 160
 Pro Gln Pro Pro Gln Gln Ser Tyr Tyr Pro Gln Gln
 165 170

<210> 2178
 <211> 142

[illegible]

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<400> 2178
Met His Gln Leu Leu Gln Leu Gln Arg Gln Glu Pro Cys Arg Leu Leu
  1              5              10              15

Ser Pro Ser Pro Gln Pro Gly Leu His His Leu Cys Phe Gln Gln Ile
      20              25              30

Glu Leu Leu Leu Leu Leu Leu His Leu Gln Trp Gly Leu Gly Leu Leu
      35              40              45

Arg Gln Leu His His Lys Arg Leu Ala Gln Leu Leu Leu His Arg Arg
      50              55              60

Arg Asp His Pro Ile Pro Pro Ile Gln Asp Ile Leu Gly Ile Ala Lys
  65              70              75              80

Cys Pro Cys Pro Trp Ala Ile Ile Leu Met Arg Met Ala Ser Ile Ile
      85              90              95

Cys His Ile His Gln Cys Ile Thr Arg Val Leu Asp Arg Leu Xaa Thr
      100              105              110

Arg Asp Pro Ser Ser Leu His Thr Pro Ser Leu Ser Pro His Ser Ser
      115              120              125

Leu Thr Ile His Ser Ser Asn Met Ser Ala Gln Gln Leu Ser
      130              135              140

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<220>  
<221> SITE  
<222> (194)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (550)
<223> Xaa equals any of the naturally occurring L-amino acids
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1436

1	5	10	15
Leu Ala Lys Pro Leu Val Lys Phe Ile Gln Gln Thr Tyr Pro Ser Gly	20	25	30
Gly Glu Glu Gln Ala Gln Tyr Cys Arg Ala Ala Glu Glu Leu Ser Lys	35	40	45
Leu Arg Arg Ala Ala Val Gly Arg Pro Leu Asp Lys His Glu Gly Ala	50	55	60
Leu Glu Thr Leu Leu Arg Tyr Tyr Asp Gln Ile Cys Ser Ile Glu Pro	65	70	75
Lys Phe Pro Phe Ser Glu Asn Gln Ile Cys Leu Thr Phe Thr Trp Lys	85	90	95
Asp Ala Phe Asp Lys Gly Ser Leu Phe Gly Gly Ser Val Lys Leu Ala	100	105	110
Leu Ala Ser Leu Gly Tyr Glu Lys Ser Cys Val Leu Phe Asn Cys Ala	115	120	125
Ala Leu Ala Ser Gln Ile Ala Ala Glu Gln Asn Leu Asp Asn Asp Glu	130	135	140
Gly Leu Lys Ile Ala Ala Lys His Tyr Gln Phe Ala Ser Gly Ala Phe	145	150	155
Leu His Ile Lys Glu Thr Val Leu Ser Ala Leu Ser Arg Glu Pro Thr	165	170	175
Val Asp Ile Ser Pro Asp Thr Val Gly Thr Leu Ser Leu Ile Met Leu	180	185	190
Ala Xaa Ala Gln Glu Val Phe Phe Leu Lys Ala Thr Arg Asp Lys Met	195	200	205
Lys Asp Ala Ile Ile Ala Lys Leu Ala Asn Gln Ala Ala Asp Tyr Phe	210	215	220
Gly Asp Ala Phe Lys Gln Cys Gln Tyr Lys Asp Thr Leu Pro Lys Glu	225	230	235
Val Phe Pro Val Leu Ala Ala Lys His Cys Ile Met Gln Ala Asn Ala	245	250	255
Glu Tyr His Gln Ser Ile Leu Ala Lys Gln Gln Lys Lys Phe Gly Glu	260	265	270
Glu Ile Ala Arg Leu Gln His Ala Ala Glu Leu Ile Lys Thr Val Ala	275	280	285
Ser Arg Tyr Asp Glu Tyr Val Asn Val Lys Asp Phe Ser Asp Lys Ile	290	295	300
Asn Arg Ala Leu Xaa Ala Ala Lys Lys Asp Asn Asp Phe Ile Tyr His	305	310	315
Asp Arg Val Pro Asp Leu Lys Asp Leu Asp Pro Ile Gly Lys Ala Thr			

325	330	335
Leu Val Lys Ser Thr Pro Val Asn Val Pro Ile Ser Gln Lys Phe Thr		
340	345	350
Asp Leu Phe Glu Lys Met Val Pro Val Ser Val Gln Gln Ser Leu Ala		
355	360	365
Ala Tyr Asn Gln Arg Lys Ala Asp Leu Val Asn Arg Ser Ile Ala Gln		
370	375	380
Met Arg Glu Ala Thr Thr Leu Ala Asn Gly Val Leu Ala Ser Leu Asn		
385	390	400
Leu Pro Ala Ala Ile Glu Asp Val Ser Gly Asp Thr Val Pro Gln Ser		
405	410	415
Ile Leu Thr Lys Ser Arg Ser Val Ile Glu Gln Gly Gly Ile Gln Thr		
420	425	430
Val Asp Gln Leu Ile Lys Glu Leu Pro Glu Leu Leu Gln Arg Asn Arg		
435	440	445
Glu Ile Leu Asp Glu Ser Leu Arg Leu Leu Asp Glu Glu Glu Ala Thr		
450	455	460
Asp Asn Asp Leu Arg Ala Lys Phe Lys Glu Arg Trp Gln Arg Thr Pro		
465	470	475
Ser Asn Glu Leu Tyr Lys Pro Leu Arg Ala Glu Gly Thr Asn Phe Arg		
485	490	495
Thr Val Leu Asp Lys Ala Val Gln Ala Asp Gly Gln Val Lys Glu Cys		
500	505	510
Tyr Gln Ser His Arg Asp Thr Ile Val Leu Leu Cys Lys Pro Glu Pro		
515	520	525
Glu Leu Asn Ala Ala Ile Pro Ser Ala Asn Pro Ala Lys Thr Met Gln		
530	535	540
Gly Ser Glu Val Val Xaa Val Leu Lys Ser Leu Leu Ser Asn Leu Asp		
545	550	555
Glu Val Lys Lys Glu Arg Glu Gly Leu Glu Asn Asp Leu Lys Ser Val		
565	570	575
Asn Phe Asp Met Thr Ser Lys Phe Leu Thr Ala Leu Ala Gln Asp Gly		
580	585	590
Val Ile Asn Glu Glu Ala Leu Ser Val Thr Glu Leu Asp Arg Val Tyr		
595	600	605
Gly Gly Leu Thr Thr Lys Val Gln Glu Ser Leu Lys Lys Gln Glu Gly		
610	615	620
Leu Leu Lys Asn Ile Gln Val Ser His Gln Glu Phe Ser Lys Met Lys		
625	630	635
Gln Ser Asn Asn Glu Ala Asn Leu Arg Glu Glu Val Leu Lys Asn Leu		

645 650 655

Ala Thr Ala Tyr Asp Asn Phe Val Glu Leu Val Ala Asn Leu Lys Glu
660 665 670

Gly Thr Lys Phe Tyr Asn Glu Leu Thr Glu Ile Leu Val Arg Phe Gln
675 680 685

Asn Lys Cys Ser Asp Ile Val Phe Ala Arg Lys Thr Glu Arg Asp Glu
690 695 700

Leu Leu Lys Asp Leu Gln Gln Ser Ile Ala Arg Glu Pro Ser Ala Pro
705 710 715 720

Ser Ile Pro Thr Pro Ala Tyr Gln Ser Leu Pro Ala Gly Gly His Ala
725 730 735

Pro Thr Pro Pro Thr Pro Ala Pro Arg Thr Met Pro Pro Thr Lys Pro
740 745 750

Gln Pro Pro Ala Arg Pro Pro Pro Pro Val Leu Pro Ala Asn Arg Ala
755 760 765

Pro Ser Ala Thr Ala Pro Ser Pro Val Gly Ala Gly Thr Ala Ala Pro
770 775 780

Ala Pro Ser Gln Thr Pro Gly Ser Ala Pro Pro Pro Gln Ala Gln Gly
785 790 795 800

Pro Pro Tyr Pro Thr Tyr Pro Gly Tyr Pro Gly Tyr Cys Gln Met Pro
805 810 815

Met Pro Met Gly Tyr Asn Pro Tyr Ala Tyr Gly Gln Tyr Asn Met Pro
820 825 830

Tyr Pro Pro Val Tyr His Gln Ser Pro Gly Gln Ala Pro Tyr Pro Gly
835 840 845

Pro Gln Gln Pro Ser Tyr Pro Phe Pro Gln Pro Pro Gln Gln Ser Tyr
850 855 860

Tyr Pro Gln Gln
865

<210> 2180
<211> 102
<212> PRT
<213> Homo sapiens

<400> 2180

Met Lys Pro Ala Thr Ala Ser Ala Leu Leu Leu Leu Leu Gly Leu
1 5 10 15

Ala Trp Thr Gln Gly Ser His Gly Trp Gly Ala Asp Ala Ser Ser Leu
20 25 30

Gln Lys Arg Ala Gly Arg Ala Asp Gln Pro Gly Ala Gly Trp Gln Glu
35 40 45

Val Ala Ala Val Thr Ser Lys Asn Tyr Asn Tyr Asn Gln His Ala Tyr
50 55 60

Pro Thr Ala Tyr Gly Gly Lys Tyr Ser Val Lys Thr Pro Ala Lys Gly
65 70 75 80

Gly Val Ser Pro Ser Ser Ser Ala Ser Arg Val Gln Pro Gly Leu Leu
85 90 95

Gln Trp Val Lys Phe Trp
100

<210> 2181
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2181
Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val
1 5 10 15

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val
20 25 30

Trp Ser Arg Xaa Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu
35 40 45

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu
50 55 60

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly
65 70 75 80

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly
85 90 95

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr
100 105 110

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly
115 120 125

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
130 135 140

<210> 2182
<211> 156
<212> PRT
<213> Homo sapiens

Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu
 115 120 125
 Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe
 130 135 140
 Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly
 145 150 155 160
 Phe Ser Leu Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile
 165 170 175
 Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln
 180 185 190
 Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile
 195 200 205
 Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu
 210 215 220
 Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
 225 230 235

<210> 2184
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 2184

Met Thr Leu Phe Gly Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala
 1 5 10 15
 Phe Thr Ile Met Leu Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val
 20 25 30
 Arg Met Asn Phe Phe Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro
 35 40 45
 Trp Val Leu Met Gly Phe Ser Leu Leu Leu Gly Asn Ser Ile Ile Val
 50 55 60
 Asp Leu Leu Gly Ile Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp
 65 70 75 80
 Val Phe Pro Asn Gln Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser
 85 90 95
 Ile Leu Lys Ala Ile Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn
 100 105 110
 Pro Leu Pro Glu Glu Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln
 115 120 125
 Arg Leu Gly Gly
 130

<210> 2185
 <211> 339
 <212> PRT
 <213> Homo sapiens

<400> 2185

Met	Ser	Trp	Ser	Thr	Phe	Leu	Leu	Ala	Glu	Ala	Cys	Gly	Phe	Thr	Gly
1				5					10					15	
Val	Val	Ala	Val	Leu	Phe	Cys	Gly	Ile	Thr	Gln	Ala	His	Tyr	Thr	Tyr
			20					25					30		
Asn	Asn	Leu	Ser	Val	Glu	Ser	Arg	Ser	Arg	Thr	Lys	Gln	Leu	Phe	Glu
		35					40					45			
Val	Leu	His	Phe	Leu	Ala	Glu	Asn	Phe	Ile	Phe	Ser	Tyr	Met	Gly	Leu
	50					55					60				
Ala	Leu	Phe	Thr	Phe	Gln	Lys	His	Val	Phe	Ser	Pro	Ile	Phe	Ile	Ile
65					70					75					80
Gly	Ala	Phe	Val	Ala	Ile	Phe	Leu	Gly	Arg	Ala	Ala	His	Ile	Tyr	Pro
				85					90					95	
Leu	Ser	Phe	Phe	Leu	Asn	Leu	Gly	Arg	Arg	His	Lys	Ile	Gly	Trp	Asn
			100					105					110		
Phe	Gln	His	Met	Met	Met	Phe	Ser	Gly	Leu	Arg	Gly	Ala	Met	Ala	Phe
		115						120				125			
Ala	Leu	Ala	Ile	Arg	Asp	Thr	Ala	Ser	Tyr	Ala	Arg	Gln	Met	Met	Phe
	130					135					140				
Thr	Thr	Thr	Leu	Leu	Ile	Val	Phe	Phe	Thr	Val	Trp	Ile	Ile	Gly	Gly
145				150						155					160
Gly	Thr	Thr	Pro	Met	Leu	Ser	Trp	Leu	Asn	Ile	Arg	Val	Gly	Val	Asp
				165					170					175	
Pro	Asp	Gln	Asp	Pro	Pro	Pro	Asn	Asn	Asp	Ser	Phe	Gln	Val	Leu	Gln
			180					185					190		
Gly	Asp	Gly	Pro	Asp	Ser	Ala	Arg	Gly	Asn	Arg	Thr	Lys	Gln	Glu	Ser
	195						200					205			
Ala	Trp	Ile	Phe	Arg	Leu	Trp	Tyr	Ser	Phe	Asp	His	Asn	Tyr	Leu	Lys
	210					215					220				
Pro	Ile	Leu	Thr	His	Ser	Gly	Pro	Pro	Leu	Thr	Thr	Thr	Leu	Pro	Ala
225					230					235					240
Trp	Cys	Gly	Leu	Leu	Ala	Arg	Cys	Leu	Thr	Ser	Pro	Gln	Val	Tyr	Asp
				245					250					255	
Asn	Gln	Glu	Pro	Leu	Arg	Glu	Glu	Asp	Ser	Asp	Phe	Ile	Leu	Thr	Glu
			260					265					270		
Gly	Asp	Leu	Thr	Leu	Thr	Tyr	Gly	Asp	Ser	Thr	Val	Thr	Ala	Asn	Gly
		275					280					285			

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 <222> (246)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2187
 Met Glu Glu Leu Ala Thr Glu Lys Glu Ala Glu Glu Ser His Arg Gln
 1 5 10 15
 Asp Ser Val Xaa Leu Leu Thr Phe Ile Leu Leu Leu Thr Leu Thr Ile
 20 25 30
 Leu Thr Ile Trp Leu Phe Lys His Arg Arg Val Arg Phe Leu His Glu
 35 40 45
 Thr Gly Leu Ala Met Ile Tyr Gly Leu Ile Val Gly Val Ile Leu Arg
 50 55 60
 Tyr Gly Thr Pro Ala Thr Ser Gly Arg Asp Lys Ser Leu Ser Cys Thr
 65 70 75 80
 Gln Glu Asp Arg Ala Phe Ser Thr Leu Leu Val Asn Val Ser Gly Lys
 85 90 95
 Phe Phe Glu Tyr Thr Leu Lys Gly Glu Ile Ser Pro Gly Lys Ile Asn
 100 105 110

<220>
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 <222> (488)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (490)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (494)
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<220>
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 <222> (495)
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<220>
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 <222> (505)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2189
 Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15
 Val His Cys Gln Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45
 Ser Arg Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Gln Trp Leu Ala Leu Val Leu His Asp Gly Gly Gln Lys Tyr Asn Glu
 65 70 75 80
 Asp Val Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
 85 90 95
 Lys Val Tyr Leu Gln Met Asp Ser Leu Arg Gly Glu Asp Thr Ala Thr
 100 105 110
 Tyr Tyr Cys Val Arg Gly Met Trp Glu Gln Leu Pro Ser Tyr Tyr Phe
 115 120 125
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Pro
 130 135 140
 Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp
 145 150 155 160
 Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu
 165 170 175

Ala Arg Leu Ser Pro Pro Leu Asn Xaa Leu His Ala Pro Pro Lys Lys
500 505 510

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
515 520 525

Lys Lys
530

<210> 2190
<211> 265
<212> PRT
<213> Homo sapiens

<400> 2190
Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp
1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr
20 25 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala
35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile
65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg
85 90 95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His
100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys
115 120 125

Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val
130 135 140

Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser
145 150 155 160

Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe
165 170 175

Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro
180 185 190

Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys
195 200 205

Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly
210 215 220

Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg
1451

00833245-041201

Ala Gly Lys Asn Met Ser Ala Arg Leu Thr Val Val Cys Lys Gln Cys
85 90 95

Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile Ile Met Gly Gln Val Gly
100 105 110

Glu Asp Gly Arg Gly Lys Ile Met Pro Asn Ser Phe Ile Met Met Phe
115 120 125

Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala Leu Lys Asn Lys Gln Cys
130 135 140

<210> 2193
<211> 294
<212> PRT
<213> Homo sapiens

<220>
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<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2193
Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn Gly Phe
1 5 10 15

Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly Asp Gln Tyr
20 25 30

Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe Lys Thr Pro Asn
35 40 45

Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr Cys Val Trp His Ile
50 55 60

Val Ala Pro Lys Asn Gln Leu Ile Glu Leu Lys Phe Glu Lys Phe Asp
65 70 75 80

Val Glu Arg Asp Asn Tyr Cys Arg Tyr Asp Tyr Val Xaa Val Phe Asn
85 90 95

Xaa Gly Glu Val Asn Asp Ala Arg Arg Ile Gly Lys Tyr Cys Gly Asp
100 105 110

Ser Pro Pro Ala Pro Ile Val Ser Glu Arg Asn Glu Leu Leu Ile Gln
115 120 125

Phe Leu Ser Asp Leu Ser Leu Thr Ala Asp Gly Phe Ile Gly His Tyr
130 135 140

115				120				125							
Leu	Glu	Tyr	Arg	Gly	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Ile	Leu	Val	Thr
	130					135					140				
Val	Ser	Ser	Ala	Ser	Pro	Thr	Ser	Pro	Lys	Val	Phe	Pro	Leu	Ser	Leu
145					150					155					160
Asp	Ser	Thr	Pro	Gln	Asp	Gly	Asn	Val	Val	Val	Ala	Cys	Leu	Val	Gln
				165					170					175	
Gly	Phe	Phe	Pro	Gln	Glu	Pro	Leu	Ser	Val	Thr	Trp	Ser	Glu	Ser	Gly
			180					185					190		
Gln	Asn	Val	Thr	Ala	Arg	Asn	Phe	Pro	Pro	Ser	Gln	Asp	Ala	Ser	Gly
		195					200					205			
Asp	Leu	Tyr	Thr	Thr	Ser	Ser	Gln	Leu	Thr	Leu	Pro	Ala	Thr	Gln	Cys
	210					215					220				
Pro	Asp	Gly	Lys	Ser	Val	Thr	Cys	His	Val	Lys	His	Tyr	Thr	Asn	Pro
225					230					235					240
Ser	Gln	Asp	Val	Thr	Val	Pro	Cys	Pro	Val	Pro	Pro	Pro	Pro	Pro	Cys
				245					250					255	
Cys	His	Pro	Arg	Leu	Ser	Leu	His	Arg	Pro	Ala	Leu	Glu	Asp	Leu	Leu
			260					265					270		
Leu	Gly	Ser	Glu	Ala	Asn	Leu	Thr	Cys	Thr	Leu	Thr	Gly	Leu	Arg	Asp
		275					280					285			
Ala	Ser	Gly	Ala	Thr	Phe	Thr	Trp	Thr	Pro	Ser	Ser	Gly	Lys	Ser	Ala
	290					295					300				
Val	Gln	Gly	Pro	Pro	Glu	Arg	Asp	Leu	Cys	Gly	Cys	Tyr	Ser	Val	Ser
305					310					315					320
Ser	Val	Leu	Pro	Gly	Cys	Ala	Gln	Pro	Trp	Asn	His	Gly	Glu	Thr	Phe
				325					330					335	
Thr	Cys	Thr	Ala	Ala	His	Pro	Glu	Leu	Lys	Thr	Pro	Leu	Thr	Ala	Asn
			340					345					350		
Ile	Thr	Lys	Ser	Gly	Asn	Thr	Phe	Arg	Pro	Glu	Val	His	Leu	Leu	Pro
		355					360					365			
Pro	Pro	Ser	Glu	Glu	Leu	Ala	Leu	Asn	Glu	Leu	Val	Thr	Leu	Thr	Cys
	370					375					380				
Leu	Ala	Arg	Gly	Phe	Ser	Pro	Lys	Asp	Val	Leu	Val	Arg	Trp	Leu	Gln
385					390					395					400
Gly	Ser	Gln	Glu	Leu	Pro	Arg	Glu	Lys	Tyr	Leu	Thr	Trp	Ala	Ser	Arg
				405					410				415		
Gln	Glu	Pro	Ser	Gln	Gly	Thr	Thr	Thr	Phe	Ala	Val	Thr	Ser	Ile	Leu
				420				425					430		
Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys	Lys	Gly	Asp	Thr	Phe	Ser	Cys	Met

435

440

445

Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp
 450 455 460

Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala
 465 470 475 480

Glu Val Asp Gly Thr Cys Tyr
 485

<210> 2195

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2195

Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp
 1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr
 20 25 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala
 35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
 50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile
 65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg
 85 90 95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His
 100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys
 115 120 125

Gln Asp Gln Val Leu Asp Val Ser Gly Ala Asp Met Leu Ala Lys Ser
 130 135 140

Ile Ala Asn Cys Gln Val Glu Leu Leu Glu Asn Cys Gly His Ser Val
 145 150 155 160

Val Met Glu Arg Pro Arg Lys Thr Ala Lys Leu Ile Ile Asp Phe Leu
 165 170 175

Ala Ser Val His Asn Thr Asp Asn Asn Lys Lys Leu Asp
 180 185

<210> 2196

<211> 298

<212> PRT

Variable	Mean	SD	Min	Max
Age	38.5	12.5	25	65
Gender	Male	Female		
Marital Status	Married	Single		
Education	High School	College		
Occupation	Manager	Worker		
Income	\$30,000	\$40,000	\$20,000	\$50,000
Health Status	Good	Fair		
Exercise Frequency	Weekly	Monthly		
Stress Level	Low	High		
Sleep Quality	Good	Poor		
Dietary Habits	Healthy	Unhealthy		
Alcohol Consumption	Occasional	Frequent		
Tobacco Use	Non-user	User		
Family Size	2	3	1	4
Home Ownership	Owner	Renter		
Commute Time	30 min	45 min	15 min	60 min
Work Hours	40 hrs/week	50 hrs/week	30 hrs/week	60 hrs/week
Job Satisfaction	High	Low		
Life Satisfaction	High	Low		
Overall Well-being	Good	Fair		

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Leu Val Pro Leu
1 5 10 15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
20 25 30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
35 40 45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
50 55 60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
65 70 75 80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
85 90 95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
100 105 110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
130 135 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
145 150 155 160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
165 170 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
180 185 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
195 200 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
210 215 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
225 230 235 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
245 250 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
260 265 270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys
275 280 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe
290 295

<210> 2197
 <211> 298
 <212> PRT
 <213> Homo sapiens

<400> 2197

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Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Leu Val Pro Leu
  1              5              10              15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
          20              25              30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
          35              40              45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
  50              55              60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
  65              70              75              80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
          85              90              95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
  100              105              110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
  115              120              125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
  130              135              140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
  145              150              155              160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
          165              170              175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
  180              185              190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
  195              200              205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
  210              215              220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
  225              230              235              240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
          245              250              255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
          260              265              270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys

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1458

00833245 "04.201
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285

<400> 2199																
Met	Ile	Arg	Thr	Arg	Arg	Gly	Trp	Ser	Ser	Met	Trp	Pro	Trp	Ile	Gly	
1				5					10					15		
Val	Gly	Tyr	Leu	Ala	Gly	Cys	Leu	Val	His	Ala	Leu	Gly	Glu	Lys	Gln	
			20					25					30			
Pro	Glu	Leu	Gln	Ile	Ser	Glu	Arg	Asp	Val	Leu	Cys	Val	Gln	Ile	Ala	
		35					40					45				
Gly	Leu	Cys	His	Asp	Leu	Gly	His	Gly	Pro	Phe	Ser	His	Met	Phe	Asp	
	50					55					60					
Gly	Arg	Phe	Ile	Pro	Leu	Ala	Arg	Pro	Glu	Val	Lys	Trp	Thr	His	Glu	
65					70					75					80	
Gln	Gly	Ser	Val	Met	Met	Phe	Glu	His	Leu	Ile	Asn	Ser	Asn	Gly	Ile	
				85					90					95		
Lys	Pro	Val	Met	Glu	Gln	Tyr	Gly	Leu	Ile	Pro	Glu	Glu	Asp	Ile	Cys	
			100					105					110			
Phe	Ile	Lys	Glu	Gln	Ile	Val	Gly	Pro	Leu	Glu	Ser	Pro	Val	Glu	Asp	
		115					120					125				
Ser	Leu	Trp	Pro	Tyr	Lys	Gly	Arg	Pro	Glu	Asn	Lys	Ser	Phe	Leu	Tyr	
	130					135					140					
Glu	Ile	Val	Ser	Asn	Lys	Arg	Asn	Gly	Ile	Asp	Val	Asp	Lys	Trp	Asp	
145					150					155					160	

1459

Tyr Phe Ala Arg Asp Cys His His Leu Gly Ile Gln Asn Asn Phe Asp
 165 170 175
 Tyr Lys Arg Phe Ile Lys Phe Ala Arg Val Cys Glu Val Asp Asn Glu
 180 185 190
 Leu Arg Ile Cys Ala Arg Asp Lys Glu Val Gly Asn Leu Tyr Asp Met
 195 200 205
 Phe His Thr Arg Asn Ser Leu His Arg Arg Ala Tyr Gln His Lys Val
 210 215 220
 Gly Asn Ile Ile Asp Thr Met Ile Thr Asp Ala Phe Leu Glu Ala Asp
 225 230 235 240
 Asp Tyr Ile Glu Ile Thr Gly Ala Gly Gly Lys Lys Tyr Arg Ile Ser
 245 250 255
 Thr Ala Ile Asp Asp Met Glu Ala Tyr Thr Lys Leu Thr Asp Asn Ile
 260 265 270
 Phe Leu Glu Ile Leu Tyr Ser Thr Asp Pro Lys Leu Lys Asp Ala Arg
 275 280 285
 Glu Ile Leu Lys Gln Ile Glu Tyr Arg Asn Leu Phe Lys Tyr Val Gly
 290 295 300
 Glu Thr Gln Pro Thr Gly Gln Ile Lys Ile Lys Arg Glu Asp Tyr Glu
 305 310 315 320
 Ser Leu Pro Lys Glu Val Ala Ser Ala Lys Pro Lys Val Leu Leu Asp
 325 330 335
 Val Lys Leu Lys Ala Glu Asp Phe Ile Val Asp Val Ile Asn Met Asp
 340 345 350
 Tyr Gly Met Gln Glu Lys Asn Pro Ile Asp His Val Ser Phe Tyr Cys
 355 360 365
 Lys Thr Ala Pro Asn Arg Ala Ile Arg Ile Thr Lys Asn Gln Val Ser
 370 375 380
 Gln Leu Leu Pro Glu Lys Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys
 385 390 395 400
 Lys Lys Val Asp Arg Lys Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val
 405 410 415
 Gln Trp Cys Ala Asp Arg Asn Phe Thr Lys Pro Gln Asp Gly Asp Val
 420 425 430
 Ile Ala Pro Leu Ile Thr Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr
 435 440 445
 Ser Val Gln Asn Pro Thr Arg Leu Arg Glu Ala Ser Lys Ser Arg Val
 450 455 460
 Gln Leu Phe Lys Asp Asp Pro Met
 465 470

Table 1. Demographic characteristics of the study population	
Characteristic	Frequency (%)
Age (years)	
< 18	10 (10.0)
18-24	25 (25.0)
25-34	30 (30.0)
35-44	20 (20.0)
45-54	15 (15.0)
55-64	10 (10.0)
65-74	5 (5.0)
≥ 75	5 (5.0)
Gender	
Male	45 (45.0)
Female	55 (55.0)
Ethnicity	
White	30 (30.0)
Black	20 (20.0)
Hispanic	15 (15.0)
Asian	10 (10.0)
Other	25 (25.0)
Marital status	
Married	35 (35.0)
Single	20 (20.0)
Divorced	15 (15.0)
Widowed	10 (10.0)
Never married	5 (5.0)
Education level	
High school or less	20 (20.0)
Some college	15 (15.0)
Bachelor's degree	10 (10.0)
Master's degree	5 (5.0)
PhD or higher	5 (5.0)
Annual income	
< \$10,000	10 (10.0)
\$10,000-\$19,999	15 (15.0)
\$20,000-\$29,999	10 (10.0)
\$30,000-\$39,999	10 (10.0)
\$40,000-\$49,999	10 (10.0)
\$50,000-\$59,999	10 (10.0)
\$60,000-\$69,999	10 (10.0)
\$70,000-\$79,999	10 (10.0)
\$80,000-\$89,999	10 (10.0)
\$90,000-\$99,999	10 (10.0)
\$100,000 or more	10 (10.0)

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<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids
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1461

195						200				205					
Gly	His	Gly	Pro	Phe	Ser	His	Met	Phe	Asp	Gly	Arg	Phe	Ile	Pro	Leu
	210					215					220				
Ala	Arg	Pro	Glu	Val	Lys	Trp	Thr	His	Glu	Gln	Gly	Ser	Val	Met	Met
225					230					235					240
Phe	Glu	His	Leu	Ile	Asn	Ser	Asn	Gly	Ile	Lys	Pro	Val	Met	Glu	Gln
				245					250					255	
Tyr	Gly	Leu	Ile	Pro	Glu	Glu	Asp	Ile	Cys	Phe	Ile	Lys	Glu	Gln	Ile
			260					265					270		
Val	Gly	Pro	Leu	Glu	Ser	Pro	Val	Glu	Asp	Ser	Leu	Trp	Pro	Tyr	Lys
		275					280					285			
Gly	Arg	Pro	Glu	Asn	Lys	Ser	Phe	Leu	Tyr	Glu	Ile	Val	Ser	Asn	Lys
	290					295					300				
Arg	Asn	Gly	Ile	Asp	Val	Asp	Lys	Trp	Asp	Tyr	Phe	Ala	Arg	Asp	Cys
305					310					315					320
His	His	Leu	Gly	Ile	Gln	Asn	Asn	Phe	Asp	Tyr	Lys	Arg	Phe	Ile	Lys
				325					330					335	
Phe	Ala	Arg	Val	Cys	Glu	Val	Asp	Asn	Glu	Leu	Arg	Ile	Cys	Ala	Arg
			340					345					350		
Xaa	Xaa	Glu	Val	Gly	Asn	Leu	Tyr	Asp	Met	Xaa	His	Thr	Arg	Asn	Ser
		355					360					365			
Leu	His	Arg	Arg	Ala	Tyr	Gln	His	Lys	Val	Gly	Asn	Ile	Ile	Asp	Thr
	370					375					380				
Met	Ile	Thr	Asp	Ala	Phe	Leu	Lys	Ala	Asp	Asp	Tyr	Ile	Glu	Ile	Thr
385					390					395					400
Gly	Ala	Gly	Gly	Lys	Lys	Tyr	Arg	Ile	Ser	Thr	Ala	Ile	Asp	Asp	Met
				405					410					415	
Glu	Ala	Tyr	Thr	Lys	Leu	Thr	Asp	Asn	Ile	Phe	Leu	Glu	Ile	Leu	Tyr
			420					425					430		
Ser	Thr	Asp	Pro	Lys	Leu	Lys	Asp	Ala	Arg	Glu	Ile	Leu	Lys	Gln	Ile
		435					440					445			
Glu	Tyr	Arg	Asn	Leu	Phe	Lys	Tyr	Val	Gly	Glu	Thr	Gln	Pro	Thr	Gly
	450					455					460				
Gln	Ile	Lys	Ile	Lys	Arg	Glu	Asp	Tyr	Glu	Ser	Leu	Pro	Lys	Glu	Val
465					470					475					480
Ala	Ser	Ala	Lys	Pro	Lys	Val	Leu	Leu	Asp	Val	Lys	Leu	Lys	Ala	Glu
				485					490					495	
Asp	Phe	Ile	Val	Asp	Val	Ile	Asn	Met	Asp	Tyr	Gly	Met	Gln	Glu	Lys
			500					505					510		
Asn	Pro	Ile	Asp	His	Val	Ser	Phe	Tyr	Cys	Lys	Thr	Ala	Pro	Asn	Arg

0983345 "041204

515. 520 525
 Ala Ile Arg Ile Thr Lys Asn Gln Val Ser Gln Leu Leu Pro Glu Lys
 530 535 540
 Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys Lys Lys Val Asp Arg Lys
 545 550 555 560
 Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val Gln Trp Cys Ala Asp Arg
 565 570 575
 Asn Phe Thr Lys Pro Gln Asp Gly Asp Val Ile Ala Pro Leu Ile Thr
 580 585 590
 Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr
 595 600 605
 Arg Leu Arg Glu Ala Ser Lys Ser Arg Val Gln Leu Phe Lys Asp Asp
 610 615 620
 Pro Met
 625

<210> 2201
 <211> 245
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (128)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2201
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
 100 105 110
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Xaa
 115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 2202
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 2202
 Met Gly Val Asn Lys Val Leu Phe Thr Phe Phe Phe Phe Ser Ser Leu
 1 5 10 15
 Leu Asp Gly Val Gly Thr Ser His Ser Leu Ala Ser Phe Pro His Thr
 20 25 30

<210> 2203
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 2203
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
 100 105 110
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
 115 120 125
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 2205
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 2205
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225 230 235 240

Ile Phe Pro Ser Ala
245

<210> 2206
<211> 245
<212> PRT
<213> Homo sapiens

<400> 2206
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 2207
 <211> 229
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2207
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Xaa Lys
 35 40 45
 Xaa Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 50 55 60
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 65 70 75 80
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
 85 90 95

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Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
100 105 110

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
115 120 125

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
130 135 140

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
145 150 155 160

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
165 170 175

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
180 185 190

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
195 200 205

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
210 215 220

Ile Phe Pro Ser Ala
225

<210> 2208

<211> 207

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2208

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu
1 5 10 15

Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
35 40 45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala
50 55 60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Xaa Gly Xaa Ala Glu Ile
65 70 75 80

Pro Val Ser Val His Gly His Ser Ala Asp Pro Pro Ala Pro Cys Thr
85 90 95

Gln Gln Pro Asp Gln Ile Gln Arg Gly Pro His Gln Pro Ala Glu Xaa
100 105 110

Tyr Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr
115 120 125

Tyr Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu
130 135 140

Tyr Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys
145 150 155 160

Thr Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly
165 170 175

Glu Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile
180 185 190

Gln Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp
195 200 205

<210> 2209
<211> 235
<212> PRT
<213> Homo sapiens

<400> 2209
Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
1 5 10 15

Leu Arg Gly Ala Arg Cys Asp Met Gln Met Thr Gln Ser Pro Ser Ser
20 25 30

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser
35 40 45

Gln Ser Ile Gly Lys Phe Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln
50 55 60

Ala Pro Lys Leu Leu Ile Ser Gly Ala Ser Ile Leu Gln Thr Gly Val
65 70 75 80

Pro Ser Arg Phe Ser Gly Ser Gly Ser Ala Thr Tyr Phe Thr Leu Thr
85 90 95

Ile Asn Asp Leu His Pro Glu Asp Ser Ala Thr Tyr Tyr Cys Gln Gln
100 105 110

Asp Tyr Thr Thr Pro Leu Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1470

		115					120					125					
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu		
	130					135					140						
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe		
145					150					155					160		
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln		
				165					170					175			
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser		
			180					185					190				
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu		
		195					200					205					
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser		
	210					215					220						
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys							
225					230					235							

<210> 2210

<212> PRT

<221> SITE

<400> 2210

1	5	10	15
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Gly Ala Arg Cys Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30

Ala Ser Leu Gly Asp Ser Val Thr Ile Thr Cys Gln Ala Ser Gln Asp
35 40 45

Ile Ala Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro
50 55 60

Lys Leu Val Ile Phe Asp Gly Ser Ile Leu His Thr Gly Val Pro Ser
65 70 75 80

Arg Phe Ser Gly Gly Gly Ser Gly Thr His Phe Thr Phe Thr Ile Asn
85 90 95

Asn Leu Gln Pro Asp Asp Val Ala Thr Tyr Ser Cys Gln Gln Tyr Asn
100 105 110

Thr Phe Pro Leu Thr Phe Gly Xaa Gly Thr Lys Val Glu Ile Lys Arg
115 120 125

<210> 2213
 <211> 263
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2213
 Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro
 1 5 10 15
 Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Xaa Gln Gly Asp Cys Ser
 20 25 30
 Phe Pro Pro Glu Leu Pro Asn Ala Ile Gln Ser Val Gly Asp Gln Gln
 35 40 45
 Ser Phe Pro Glu Lys Phe Thr Val Thr Tyr Lys Cys Lys Glu Gly Phe
 50 55 60
 Val Lys Val Pro Gly Lys Ala Asp Ser Val Val Cys Leu Asn Asn Lys
 65 70 75 80
 Trp Ser Glu Val Ala Glu Phe Cys Asn Arg Ser Cys Asp Val Pro Thr
 85 90 95
 Arg Leu Gln Phe Ala Ser Leu Lys Lys Ser Phe Thr Lys Gln Asn Xaa
 100 105 110
 Phe Pro Val Gly Ser Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr Gln
 115 120 125
 Arg Asp His Leu Leu Ser Gly Lys Leu Thr Cys Leu Leu Asn Phe Thr
 130 135 140
 Trp Ser Lys Pro Asp Glu Phe Cys Lys Arg Lys Ser Cys Pro Asn Pro
 145 150 155 160
 Gly Asp Leu Arg His Gly His Val Asn Ile Pro Thr Asp Ile Leu Tyr
 165 170 175
 Ala Ala Val Ile His Phe Ser Cys Asn Lys Gly Tyr Arg Leu Val Gly
 180 185 190
 Ala Ala Ser Ser Tyr Cys Ser Ile Val Asn Asp Asp Val Gly Trp Ser
 195 200 205
 Asp Pro Leu Pro Glu Cys Gln Glu Ile Phe Cys Pro Glu Pro Pro Lys
 210 215 220
 Ile Ser Asn Gly Val Ile Leu Asp Gln Gln Asn Thr Tyr Val Tyr Gln
 225 230 235 240

Gln Ala Val Lys Tyr Glu Cys Ile Lys Gly Phe Thr Leu Ile Gly Glu
 245 250 255

Asn Ser Asp Leu Leu Tyr Cys
 260

<210> 2214
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 2214
 Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro
 1 5 10 15
 Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Gly Arg Val Thr Ala Ala
 20 25 30
 Phe Pro Gln Ser Tyr Leu Met Pro Tyr Lys Val Trp Val Thr Asn Arg
 35 40 45
 Val Phe Leu Lys Asn Ser Gln
 50 55

<210> 2215
 <211> 350
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2215
 Met Ala Xaa Xaa Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly
 1 5 10 15
 Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn
 20 25 30
 Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu
 35 40 45
 Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala
 50 55 60
 Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val
 65 70 75 80

1	5	10	15
Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn	20	25	30
Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu	35	40	45
Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala	50	55	60
Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val	65	70	75
Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr	85	90	95
Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser	100	105	110
Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala	115	120	125
Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe	130	135	140
Glu Asp Leu Ser Val Thr Leu Arg Gln Leu Arg Asn Arg Leu Phe Gln	145	150	155
Glu Asn Ser Val Leu Ser Ser Leu Pro Leu Asn Ser Leu Ser Arg Asn	165	170	175
Asn Glu Val Asp Leu Leu Phe Leu Ser Glu Leu Gln Val Leu His Asp	180	185	190
Ile Ser Ser Leu Leu Ser Arg His Lys His Leu Ala Lys Asp His Ser	195	200	205
Pro Asp Leu Tyr Ser Leu Glu Leu Ala Gly Leu Asp Glu Ile Gly Lys	210	215	220
Arg Tyr Gly Glu Asp Ser Glu Gln Phe Arg Asp Ala Ser Lys Ile Leu	225	230	235
Val Asp Ala Leu Gln Lys Phe Ala Asp Asp Met Tyr Ser Leu Tyr Gly	245	250	255
Gly Asn Ala Val Val Glu Leu Val Thr Val Lys Ser Phe Asp Thr Ser	260	265	270
Leu Ile Arg Lys Thr Arg Thr Ile Leu Glu Ala Lys Gln Ala Lys Asn	275	280	285
Pro Ala Ser Pro Tyr Asn Leu Ala Tyr Lys Tyr Asn Phe Glu Tyr Ser	290	295	300
Val Val Phe Asn Met Val Leu Trp Ile Met Ile Ala Leu Ala Leu Ala	305	310	315
Val Ile Ile Thr Ser Tyr Asn Ile Trp Asn Met Asp Pro Gly Tyr Asp			

325

330

335

Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp
 340 345 350

<210> 2217

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2217

Met Cys Ser Leu Phe His Ala Phe Ile Phe Ala Gln Leu Trp Thr Val
 1 5 10 15

Tyr Cys Glu Gln Ser Ala Val Ala Thr Asn Leu Gln Asn Gln Asn Glu
 20 25 30

Phe Ser Phe Thr Ala Ile Leu Thr Ala Leu Glu Phe Trp Ser Arg Val
 35 40 45

Thr Pro Ser Ile Leu Gln Leu Met Ala His Asn Lys Xaa Met Val Glu
 50 55 60

Met Val Cys Leu His Val Ile Ser Leu Met Glu Ala Leu Gln Xaa Cys
 65 70 75 80

Asn Ser Thr Ile Phe Val Lys Leu Ile Pro Met Trp Leu Pro Met Ile
 85 90 95

Gln Ser Asn Ile Lys His Leu Ser Ala Gly Leu Gln Leu Arg Leu Gln
 100 105 110

Ala Ile Gln Asn His Val Asn His His Ser Leu Arg Thr Leu Pro Gly
 115 120 125

Ser Gly Gln Ser Ser Ala Gly Leu Ala Ala Leu Arg Lys Trp Leu Gln
 130 135 140

Cys Thr Gln Phe Lys Met Ala Gln Val Glu Ile Gln Ser Ser Glu Ala
 145 150 155 160

Ala Ser Gln Phe Tyr Pro Leu
 165

<210> 2218

<211> 110

<212> PRT
<213> Homo sapiens

<400> 2218

Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala Glu Tyr
1 5 10 15
Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu Gly Tyr
20 25 30
Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala Val Leu
35 40 45
Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val Gln Leu
50 55 60
Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala Phe Gln
65 70 75 80
Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val Met Leu
85 90 95
Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro
100 105 110

<210> 2219

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2219

Ile Ser Leu Leu Trp Asn Leu Trp Gln Ser Val Lys Ile Gly Cys Gly
1 5 10 15
Glu Lys Leu Tyr Pro Gly His Thr Lys Asp Ser Arg Asn His Leu Gly
20 25 30
Gln Asn Leu Ser Phe Leu His Phe Ile Tyr Leu Phe Pro Pro Pro His
35 40 45
Ser Thr His Thr Leu Pro Thr Ser Ser Thr Ser Thr Phe Lys His Lys
50 55 60
Asp Val Arg Val Phe Ser Leu Ser Val Ser Trp Arg Thr Gly Cys Trp
65 70 75 80
Glu Arg Lys Gly Gln Met Ser Lys Gly Gly Cys Arg Ala Gly Gln Ala
85 90 95

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210	215	220
Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser		
225	230	235 240
Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Xaa Thr Ser		
	245	250 255
Arg Asn Phe Gln Thr Lys		
260		
<210> 2221		
<211> 514		
<212> PRT		
<213> Homo sapiens		
<400> 2221		
Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln Ala Cys Asn Arg		
1	5	10 15
Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp Gln Pro Cys Ser		
	20	25 30
Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val Leu Cys Lys Gln		
	35	40 45
Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu Thr Phe Cys Ser		
	50	55 60
Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys Asp Asp Cys Pro		
65	70	75 80
Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser Thr Ser Cys Gly		
	85	90 95
Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys Met Leu Lys Thr		
	100	105 110
Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro Pro Leu Pro Phe		
	115	120 125
Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys Ala Arg Pro Gly		
	130	135 140
Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala Ala Arg Lys Val		
145	150	155 160
Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe Val Val Gly Gly		
	165	170 175
Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu Arg Cys Pro Ala		
	180	185 190
Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys Asp Gly Gln His		
	195	200 205
Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe Gly Tyr Leu Lys		
210	215	220

Ile	His	Arg	Leu	Lys	Pro	Ser	Asp	Ala	Gly	Val	Tyr	Thr	Cys	Ser	Ala	225	230	235	240
Gly	Pro	Ala	Arg	Glu	His	Phe	Val	Ile	Lys	Leu	Ile	Gly	Gly	Asn	Arg	245	250	255	
Lys	Leu	Val	Ala	Arg	Pro	Leu	Ser	Pro	Arg	Ser	Glu	Glu	Glu	Val	Leu	260	265	270	
Ala	Gly	Arg	Lys	Gly	Gly	Pro	Lys	Glu	Ala	Leu	Gln	Thr	His	Lys	His	275	280	285	
Gln	Asn	Gly	Ile	Phe	Ser	Asn	Gly	Ser	Lys	Ala	Glu	Lys	Arg	Gly	Leu	290	295	300	
Ala	Ala	Asn	Pro	Gly	Ser	Arg	Tyr	Asp	Asp	Leu	Val	Ser	Arg	Leu	Leu	305	310	315	320
Glu	Gln	Gly	Gly	Trp	Pro	Gly	Glu	Leu	Leu	Ala	Ser	Trp	Glu	Ala	Gln	325	330	335	
Asp	Ser	Ala	Glu	Arg	Asn	Thr	Thr	Ser	Glu	Glu	Asp	Pro	Gly	Ala	Glu	340	345	350	
Gln	Val	Leu	Leu	His	Leu	Pro	Phe	Thr	Met	Val	Thr	Glu	Gln	Arg	Arg	355	360	365	
Leu	Asp	Asp	Ile	Leu	Gly	Asn	Leu	Ser	Gln	Gln	Pro	Glu	Glu	Leu	Arg	370	375	380	
Asp	Leu	Tyr	Ser	Lys	His	Leu	Val	Ala	Gln	Leu	Ala	Gln	Glu	Ile	Phe	385	390	395	400
Arg	Ser	His	Leu	Glu	His	Gln	Asp	Thr	Leu	Leu	Lys	Pro	Ser	Glu	Arg	405	410	415	
Arg	Thr	Ser	Pro	Val	Thr	Leu	Ser	Pro	His	Lys	His	Val	Ser	Gly	Phe	420	425	430	
Ser	Ser	Ser	Leu	Arg	Thr	Ser	Ser	Thr	Gly	Asp	Ala	Gly	Gly	Gly	Ser	435	440	445	
Arg	Arg	Pro	His	Arg	Lys	Pro	Thr	Ile	Leu	Arg	Lys	Ile	Ser	Ala	Ala	450	455	460	
Gln	Gln	Leu	Ser	Ala	Ser	Glu	Val	Val	Thr	His	Leu	Gly	Gln	Thr	Val	465	470	475	480
Ala	Leu	Ala	Ser	Gly	Thr	Leu	Ser	Val	Phe	Cys	Thr	Val	Arg	Pro	Ser	485	490	495	
Ala	Thr	Gln	Gly	Leu	Pro	Ser	Ala	Gly	Pro	Gly	Met	Glu	Lys	Lys	Ser	500	505	510	
Val	Gln																		

[illegible]

Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu
1 5 10 15

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr
35 40 45

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys
50 55 60

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp
65 70 75 80

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His
85 90 95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser
100 105 110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr
115 120 125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys
130 135 140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val
145 150 155 160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly
165 170 175

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
180 185 190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile
195 200 205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His
210 215 220

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser
225 230 235 240

Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe
245 250 255

Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr
260 265 270

Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr
275 280 285

Val	Gln	Phe	Ile	Phe	Tyr	Gln	Pro	Ile	Ile	His	Arg	Trp	Arg	Glu	Thr	290	295	300
Asp	Phe	Phe	Pro	Cys	Ser	Ala	Thr	Cys	Gly	Gly	Gly	Tyr	Gln	Leu	Thr	305	310	315
Ser	Ala	Glu	Cys	Tyr	Asp	Leu	Arg	Ser	Asn	Arg	Val	Val	Ala	Asp	Gln	325	330	335
Tyr	Cys	His	Tyr	Tyr	Pro	Glu	Asn	Ile	Lys	Pro	Lys	Pro	Lys	Leu	Gln	340	345	350
Glu	Cys	Asn	Leu	Asp	Pro	Cys	Pro	Ala	Arg	Trp	Glu	Ala	Thr	Pro	Trp	355	360	365
Thr	Ala	Cys	Ser	Ser	Ser	Cys	Gly	Gly	Gly	Ile	Gln	Ser	Arg	Ala	Val	370	375	380
Ser	Cys	Val	Glu	Glu	Asp	Ile	Gln	Gly	His	Val	Thr	Ser	Val	Glu	Glu	385	390	395
Trp	Lys	Cys	Met	Tyr	Thr	Pro	Lys	Met	Pro	Ile	Ala	Gln	Pro	Cys	Asn	405	410	415
Ile	Phe	Asp	Cys	Pro	Lys	Trp	Leu	Ala	Gln	Glu	Trp	Ser	Pro	Cys	Thr	420	425	430
Val	Thr	Cys	Gly	Gln	Gly	Leu	Arg	Tyr	Arg	Val	Val	Leu	Cys	Ile	Asp	435	440	445
His	Arg	Gly	Met	His	Thr	Gly	Gly	Cys	Ser	Pro	Lys	Thr	Lys	Pro	His	450	455	460
Ile	Lys	Glu	Glu	Cys	Ile	Val	Pro	Thr	Pro	Cys	Tyr	Lys	Pro	Lys	Glu	465	470	475
Lys	Leu	Pro	Val	Glu	Ala	Lys	Leu	Pro	Trp	Phe	Lys	Gln	Ala	Gln	Glu	485	490	495
Leu	Glu	Glu	Gly	Ala	Ala	Val	Ser	Glu	Glu	Pro	Ser	Phe	Ile	Pro	Lys	500	505	510
Ala	Trp	Ser	Ala	Cys	Thr	Val	Thr	Cys	Gly	Val	Gly	Thr	Gln	Val	Arg	515	520	525
Ile	Val	Arg	Cys	Gln	Val	Leu	Leu	Ser	Phe	Ser	Gln	Ser	Val	Ala	Asp	530	535	540
Leu	Pro	Ile	Asp	Glu	Cys	Glu	Gly	Pro	Lys	Pro	Ala	Ser	Gln	Arg	Ala	545	550	555
Cys	Tyr	Ala	Gly	Pro	Cys	Ser	Gly	Glu	Ile	Pro	Glu	Phe	Asn	Pro	Asp	565	570	575
Glu	Thr	Asp	Gly	Leu	Phe	Gly	Gly	Leu	Gln	Asp	Phe	Asp	Glu	Leu	Tyr	580	585	590
Asp	Trp	Glu	Tyr	Glu	Gly	Phe	Thr	Lys	Cys	Ser	Glu	Ser	Cys	Gly	Gly	595	600	605

Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile
930 935 940

Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu
945 950 955 960

Glu Glu Val Leu Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln
965 970 975

Thr His Lys His Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu
980 985 990

Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val
995 1000 1005

Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser
1010 1015 1020

Trp Glu Ala Gln Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp
1025 1030 1035 1040

Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr
1045 1050 1055

Glu Gln Arg Arg Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro
1060 1065 1070

Glu Glu Leu Arg Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala
1075 1080 1085

Gln Glu Ile Phe Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys
1090 1095 1100

Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His
1105 1110 1115 1120

Val Ser Gly Phe Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala
1125 1130 1135

Gly Gly Gly Ser Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys
1140 1145 1150

Ile Ser Ala Ala Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu
1155 1160 1165

Gly Gln Thr Val Ala Leu Ala Ser Gly Thr Leu Ser Val Leu Leu His
1170 1175 1180

Cys Glu Ala Ile Gly His Pro Arg Pro Thr Ile Ser Trp Ala Arg Asn
1185 1190 1195 1200

Gly Glu Glu Val Gln Phe Ser Asp Arg Ile Leu Leu Gln Pro Asp Asp
1205 1210 1215

Ser Leu Gln Ile Leu Ala Pro Val Glu Ala Asp Val Gly Phe Tyr Thr
1220 1225 1230

Cys Asn Ala Thr Asn Ala Leu Gly Tyr Asp Ser Val Ser Ile Ala Val
1235 1240 1245

Thr Leu Ala Gly Lys Pro Leu Val Lys Thr Ser Arg Met Thr Val Ile
1250 1255 1260

Asn Thr Glu Lys Pro Ala Val Thr Val Asp Ile Gly Ser Thr Ile Lys
1265 1270 1275 1280

Thr Val Gln Gly Val Asn Val Thr Ile Asn Cys Gln Val Ala Gly Val
1285 1290 1295

Pro Glu Ala Glu Val Thr Trp Phe Arg Asn Lys Ser Lys Leu Gly Ser
1300 1305 1310

Pro His His Leu His Glu Gly Ser Leu Leu Leu Thr Asn Val Ser Ser
1315 1320 1325

Ser Asp Gln Gly Leu Tyr Ser Cys Arg Ala Ala Asn Leu His Gly Glu
1330 1335 1340

Leu Thr Glu Ser Thr Gln Leu Leu Ile Leu Asp Pro Pro Gln Val Pro
1345 1350 1355 1360

Thr Gln Leu Glu Asp Ile Arg Ala Leu Leu Ala Ala Thr Gly Pro Asn
1365 1370 1375

Leu Pro Ser Val Leu Thr Ser Pro Leu Gly Thr Gln Leu Val Leu Asp
1380 1385 1390

Pro Gly Asn Ser Ala Leu Leu Gly Cys Pro Ile Lys Gly His Pro Val
1395 1400 1405

Pro Asn Ile Thr Trp Phe His Gly Gly Gln Pro Ile Val Thr Ala Thr
1410 1415 1420

Gly Leu Thr His His Ile Leu Ala Ala Gly Gln Ile Leu Gln Val Ala
1425 1430 1435 1440

Asn Leu Ser Gly Gly Ser Gln Gly Glu Phe Ser Cys Leu Ala Gln Asn
1445 1450 1455

Glu Ala Gly Val Leu Met Gln Lys Ala Ser Leu Val Ile Gln Asp Tyr
1460 1465 1470

Trp Trp Ser Val Asp Arg Leu Ala Thr Cys Ser Ala Ser Cys Gly Asn
1475 1480 1485

Arg Gly Val Gln Gln Pro Arg Leu Arg Cys Leu Leu Asn Ser Thr Glu
1490 1495 1500

Val Asn Pro Ala His Cys Ala Gly Lys Val Arg Pro Ala Val Gln Pro
1505 1510 1515 1520

Ile Ala Cys Asn Arg Arg Asp Cys Pro Ser Arg Trp Met Val Thr Ser
1525 1530 1535

Trp Ser Ala Cys Thr Arg Ser Cys Gly Gly Gly Val Gln Thr Arg Arg
1540 1545 1550

Val Thr Cys Gln Lys Leu Lys Ala Ser Gly Ile Ser Thr Pro Val Ser
1555 1560 1565

Ala Thr Gln Ala Arg Lys Gly Phe Trp Asp Tyr Phe Ser Gln Thr Ser
20 25 30

Gly Asp Lys Gly Arg Val Glu Gln Ile His Gln Gln Lys Met Ala Arg
35 40 45

Glu Pro Ala Thr Leu Lys Asp Ser Leu Glu Gln Asp Leu Asn Asn Met
50 55 60

Asn Lys Phe Leu Glu Lys Leu Arg Pro Leu Ser Gly Ser Glu Ala Pro
65 70 75 80

Arg Leu Pro Gln Asp Pro Val Gly Met Arg Arg Gln Leu Gln Glu Glu
85 90 95

Leu Glu Glu Val Lys Ala Arg Leu Gln Pro Tyr Met Ala Glu Ala His
100 105 110

Glu Leu Val Gly Trp Asn Leu Glu Gly Leu Arg Gln Gln Leu Lys Pro
115 120 125

Tyr Thr Met Asp Leu Met Glu Gln Val Ala Leu Arg Val Gln Glu Leu
130 135 140

Gln Glu Gln Leu Arg Val Val Gly Glu Asp Thr Lys Ala Gln Leu Leu
145 150 155 160

Gly Gly Val Asp Glu Ala Trp Ala Leu Leu Gln Gly Leu Gln Ser Arg
165 170 175

Val Val His His Thr Gly Arg Phe Lys Glu Leu Phe His Pro Tyr Ala
180 185 190

Glu Ser Leu Val Ser Gly Ile Gly Arg His Val Gln Glu Leu His Arg
195 200 205

Ser Val Ala Pro His Ala Pro Ala Ser Pro Ala Arg Leu Ser Arg Cys
210 215 220

Val Gln Val Leu Ser Arg Lys Leu Thr Leu Lys Ala Lys Ala Leu His
225 230 235 240

Ala Arg Ile Gln Gln Asn Leu Asp Gln Leu Arg Glu Glu Leu Ile Arg
245 250 255

Ala Phe Ala Gly Thr Gly Thr Glu Glu Gly Ala Gly Pro Asp Pro Gln
260 265 270

Met Leu Ser Glu Glu Val Arg Gln Arg Leu Gln Ala Phe Arg Gln Asp
275 280 285

Thr Tyr Leu Gln Ile Ala Ala Phe Thr Arg Ala Ile Asp Gln Glu Thr
290 295 300

Glu Glu Val Gln Gln Gln Leu Ala Pro Pro Pro Gly His Ser Ala
305 310 315 320

Phe Ala Pro Glu Phe Gln Gln Thr Asp Ser Gly Lys Val Leu Ser Lys
325 330 335

<210> 2226
 <211> 252
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2226
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu
 1 5 10 15
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
 20 25 30
 Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
 35 40 45
 Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro
 50 55 60
 Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
 65 70 75 80
 Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala
 85 90 95
 Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
 100 105 110
 Ile Gly Glu Xaa His Leu Pro Leu Leu Arg Arg Gln Leu Pro Pro Trp
 115 120 125
 Cys Pro His Pro Ala Trp Xaa Gly Ala Gly Pro Ala Ala Gly Pro Gly
 130 135 140
 Pro Xaa Pro Arg Arg Ala Leu Leu Pro Ala His Ser Leu His Arg Arg
 145 150 155 160
 Gly Leu Pro Arg Arg Pro Pro Arg Trp Gln Arg Leu Pro Gln Leu Ser
 1491

0983345-0410
 "FOOTHO" SHEET

165 170 175
 Ala Ala Leu Arg Leu Trp Trp Leu Arg Val Pro Gly Leu Ala Pro Arg
 180 185 190
 Ser Cys Ser Ala Gly Gly Ala Arg Leu Thr Tyr Leu Leu Glu Thr Trp
 195 200 205
 Met Gln Arg Gln Arg Gly Gly Glu Trp Ala Gly Ala Thr Ser Ser Glu
 210 215 220
 Cys Asn Lys Gly His His Ser Pro Gly Lys Lys Lys Lys Lys Lys Lys
 225 230 235 240
 Lys Lys Lys Lys Lys Leu Glu Gly Gly Ser Arg Tyr
 245 250

<210> 2227
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 2227
 Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
 1 5 10 15
 Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr
 20 25 30
 Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser
 35 40 45
 Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp
 50 55 60
 Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln
 65 70 75 80
 Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn
 85 90 95
 Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn
 100 105 110
 Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
 115 120 125
 Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro
 130 135 140
 Ile Ser Ile Met Ile Cys
 145 150

<210> 2228
 <211> 125
 <212> PRT

<213> Homo sapiens

<400> 2228

Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val
 1 5 10 15
 Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met
 20 25 30
 Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu
 35 40 45
 Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala
 50 55 60
 Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly
 65 70 75 80
 Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro
 85 90 95
 Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe
 100 105 110
 Leu Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu
 115 120 125

<210> 2229

<211> 766

<212> PRT

<213> Homo sapiens

<400> 2229

Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala
 1 5 10 15
 Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val
 20 25 30
 Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu
 35 40 45
 Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val
 50 55 60
 Asp Arg Ser Arg Gln Gly Phe Ser Thr Arg Tyr Lys Ile Tyr Arg Glu
 65 70 75 80
 Phe Gly Arg Trp Lys Val Asn Asn Leu Ala Val Glu Arg Arg Asn Phe
 85 90 95
 Leu Gly Ser Pro Leu Pro Leu Ala Pro Glu Phe Phe Arg Asn Ile Arg
 100 105 110
 Leu Leu Gly Arg Arg Pro Thr Leu Gln Gln Ile Thr Glu Asn Leu Ile
 115 120 125
 Lys Lys Tyr Gly Thr His Phe Leu Leu Ser Ala Thr Leu Gly Gly Glu

130	135	140
Glu Ser Leu Thr Ile Phe Val Asp Lys Arg Lys Leu Ser Lys Arg Ala		
145	150	155 160
Glu Gly Ser Asp Ser Thr Thr Asn Ser Ser Ser Val Thr Leu Glu Thr		
	165	170 175
Leu His Gln Leu Ala Ala Ser Tyr Phe Ile Asp Arg Asp Ser Thr Leu		
	180	185 190
Arg Arg Leu His His Ile Gln Ile Ala Ser Thr Ala Ile Lys Val Thr		
	195	200 205
Glu Thr Arg Thr Gly Pro Leu Gly Cys Ser Asn Tyr Asp Asn Leu Asp		
	210	215 220
Ser Val Ser Ser Val Leu Val Gln Ser Pro Glu Asn Lys Ile Gln Leu		
	225	230 235 240
Gln Gly Leu Gln Val Leu Leu Pro Asp Tyr Leu Gln Glu Arg Phe Val		
	245	250 255
Gln Ala Ala Leu Ser Tyr Ile Ala Cys Asn Ser Glu Gly Glu Phe Ile		
	260	265 270
Cys Lys Glu Asn Asp Cys Trp Cys His Cys Gly Pro Lys Phe Pro Glu		
	275	280 285
Cys Asn Cys Pro Ser Met Asp Ile Gln Ala Met Glu Glu Asn Leu Leu		
	290	295 300
Arg Ile Thr Glu Thr Trp Lys Ala Tyr Asn Ser Asp Phe Glu Glu Ser		
	305	310 315 320
Asp Glu Phe Lys Leu Phe Met Lys Arg Leu Pro Met Asn Tyr Phe Leu		
	325	330 335
Asn Thr Ser Thr Ile Met His Leu Trp Thr Met Asp Ser Asn Phe Gln		
	340	345 350
Arg Arg Tyr Glu Gln Leu Glu Asn Ser Met Lys Gln Leu Phe Leu Lys		
	355	360 365
Ala Gln Lys Ile Val His Lys Leu Phe Ser Leu Ser Lys Arg Cys His		
	370	375 380
Lys Gln Pro Leu Ile Ser Leu Pro Arg Gln Arg Thr Ser Thr Tyr Trp		
	385	390 395 400
Leu Thr Arg Ile Gln Ser Phe Leu Tyr Cys Asn Glu Asn Gly Leu Leu		
	405	410 415
Gly Ser Phe Ser Glu Glu Thr His Ser Cys Thr Cys Pro Asn Asp Gln		
	420	425 430
Val Val Cys Thr Ala Phe Leu Pro Cys Thr Val Gly Asp Ala Ser Ala		
	435	440 445
Cys Leu Thr Cys Ala Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn		

450					455					460					
Thr 465	Gly	Tyr	Met	Leu	Ser 470	Gln	Gly	Leu	Cys	Lys 475	Pro	Glu	Val	Ala	Glu 480
Ser	Thr	Asp	His	Tyr 485	Ile	Gly	Phe	Glu	Thr 490	Asp	Leu	Gln	Asp	Leu 495	Glu
Met	Lys	Tyr	Leu	Leu 500	Gln	Lys	Thr	Asp 505	Arg	Arg	Ile	Glu	Val 510	His	Ala
Ile	Phe	Ile 515	Ser	Asn	Asp	Met	Arg 520	Leu	Asn	Ser	Trp	Phe 525	Asp	Pro	Ser
Trp	Arg 530	Lys	Arg	Met	Leu	Leu 535	Thr	Leu	Lys	Ser	Asn 540	Lys	Tyr	Lys	Ser
Ser 545	Leu	Val	His	Met	Ile 550	Leu	Gly	Leu	Ser	Leu 555	Gln	Ile	Cys	Leu	Thr 560
Lys	Asn	Ser	Thr	Leu 565	Glu	Pro	Val	Leu	Ala 570	Val	Tyr	Val	Asn	Pro 575	Phe
Gly	Gly	Ser	His 580	Ser	Glu	Ser	Trp	Phe 585	Met	Pro	Val	Asn	Glu 590	Asn	Ser
Phe	Pro	Asp 595	Trp	Glu	Arg	Thr	Lys 600	Leu	Asp	Leu	Pro	Leu 605	Gln	Cys	Tyr
Asn	Trp 610	Thr	Leu	Thr	Leu	Gly 615	Asn	Lys	Trp	Lys	Thr 620	Phe	Phe	Glu	Thr
Val 625	His	Ile	Tyr	Leu	Arg 630	Ser	Arg	Ile	Lys	Ser 635	Asn	Gly	Pro	Asn	Gly 640
Asn	Glu	Ser	Ile	Tyr 645	Tyr	Glu	Pro	Leu	Glu 650	Phe	Ile	Asp	Pro	Ser 655	Arg
Asn	Leu	Gly 660	Tyr	Met	Lys	Ile	Asn	Asn 665	Ile	Gln	Val	Phe 670	Gly	Tyr	Ser
Met	His 675	Phe	Asp	Pro	Glu	Ala	Ile 680	Arg	Asp	Leu	Ile	Leu 685	Gln	Leu	Asp
Tyr	Pro 690	Tyr	Thr	Gln	Gly	Ser 695	Gln	Asp	Ser	Ala 700	Leu	Leu	Gln	Leu	Leu
Glu 705	Ile	Arg	Asp	Arg 710	Val	Asn	Lys	Leu	Ser	Pro 715	Pro	Gly	Gln	Arg	Arg 720
Leu	Asp	Leu	Phe 725	Ser	Cys	Leu	Leu	Arg	His 730	Arg	Leu	Lys	Leu	Ser 735	Thr
Ser	Glu	Val	Val 740	Arg	Ile	Gln	Ser	Ala 745	Leu	Gln	Ala	Phe	Asn 750	Ala	Lys
Leu	Pro 755	Asn	Thr	Met	Asp	Tyr	Asp 760	Thr	Thr	Lys	Leu	Cys 765	Ser		

<210> 2230
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 2230
 Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala
 1 5 10 15
 Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser
 20 25 30
 Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr
 35 40 45
 His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln
 50 55 60

<210> 2231
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 2231
 Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr
 1 5 10 15
 Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro
 20 25 30
 Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile
 35 40 45
 Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly
 50 55 60
 Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr
 65 70 75 80
 Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala
 85 90 95
 Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro
 100 105 110
 Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val
 115 120 125
 Phe Phe Val Arg Asp
 130

<210> 2232
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 2232

Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr Leu Leu
 1 5 10 15
 Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro Trp Asn
 20 25 30
 Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile Leu Leu
 35 40 45
 Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly Phe Asp
 50 55 60
 Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr Leu Ile
 65 70 75 80
 Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala Lys Leu
 85 90 95
 Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro Leu Trp
 100 105 110
 Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val Phe Phe
 115 120 125
 Val Arg Asp
 130

<210> 2233

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2233

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Leu Val Pro Leu
 1 5 10 15
 Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
 20 25 30
 Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
 35 40 45
 Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
 50 55 60
 Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
 65 70 75 80
 Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
 85 90 95
 Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
 100 105 110
 Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
 115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
 130 135 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
 145 150 155 160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
 165 170 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
 180 185 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
 195 200 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
 210 215 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
 225 230 235 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
 245 250 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
 260 265 270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys
 275 280 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe
 290 295

<210> 2234
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 2234
 Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
 1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
 20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
 35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
 50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
 65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
 85 90 95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg
 100 105 110
 Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys
 115 120 125
 Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser
 130 135 140
 Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser
 145 150 155

<210> 2235
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 2235
 Met Thr Lys Ala Leu Ile Pro Thr Pro Phe Phe Leu Ala Ala Met Trp
 1 5 10 15
 Pro Leu Trp Gln His Ser Trp Ala Gln Thr Leu Arg Ser Gln Arg Gln
 20 25 30
 Glu Ala Asp Ala Trp Ala Lys Ala Gly Ala Gly Asn Ser Arg Gly Ser
 35 40 45
 Leu Ala Trp Arg Leu Leu Met Ser Ser Gly
 50 55

<210> 2236
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 2236
 Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala
 1 5 10 15
 Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu
 20 25 30
 Pro Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val
 35 40 45
 Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu
 50 55 60
 Ile His Val Gly Leu Leu Asn
 65 70

<210> 2237
 <211> 605
 <212> PRT

<213> Homo sapiens

<400> 2237

Met Gly Arg Leu Leu Arg Ala Ala Arg Leu Pro Pro Leu Leu Ser Pro
1 5 10 15
Leu Leu Leu Leu Leu Val Gly Gly Ala Phe Leu Gly Ala Cys Val Ala
20 25 30
Gly Ser Asp Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr Ser Leu Leu
35 40 45
Asp Leu Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp Ser Glu Glu Pro
50 55 60
Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly Ala Pro Gly Ser Gly
65 70 75 80
Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg Ile Leu Gln Pro Pro Gln
85 90 95
Tyr Phe Trp Glu Glu Glu Glu Glu Leu Asn Asp Ser Ser Leu Asp Leu
100 105 110
Gly Pro Thr Ala Asp Tyr Val Phe Pro Asp Leu Thr Glu Lys Ala Gly
115 120 125
Ser Ile Glu Asp Thr Ser Gln Ala Gln Glu Leu Pro Asn Leu Pro Ser
130 135 140
Pro Leu Pro Lys Met Asn Leu Val Glu Pro Pro Trp His Met Pro Pro
145 150 155 160
Arg Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Arg Glu Lys Glu
165 170 175
Glu Val Glu Lys Gln Glu Glu Glu Glu Glu Glu Glu Leu Leu Pro Val
180 185 190
Asn Gly Ser Gln Glu Glu Ala Lys Pro Gln Val Arg Asp Phe Ser Leu
195 200 205
Thr Ser Ser Ser Gln Thr Pro Gly Ala Thr Lys Ser Arg His Glu Asp
210 215 220
Ser Gly Asp Gln Ala Ser Ser Gly Val Glu Val Glu Ser Ser Met Gly
225 230 235 240
Pro Ser Leu Leu Leu Pro Ser Val Thr Pro Thr Thr Val Thr Pro Gly
245 250 255
Asp Gln Asp Ser Thr Ser Gln Glu Ala Glu Ala Thr Val Leu Pro Ala
260 265 270
Ala Gly Leu Gly Val Glu Phe Glu Ala Pro Gln Glu Ala Ser Glu Glu
275 280 285
Ala Thr Ala Gly Ala Ala Gly Leu Ser Gly Gln His Glu Glu Val Pro
290 295 300

1500

05833245-04301

Ala Leu Pro Ser Phe Pro Gln Thr Thr Ala Pro Ser Gly Ala Glu His
305 310 315 320

Pro Asp Glu Asp Pro Leu Gly Ser Arg Thr Ser Ala Ser Ser Pro Leu
325 330 335

Ala Pro Gly Asp Met Glu Leu Thr Pro Ser Ser Ala Thr Leu Gly Gln
340 345 350

Glu Asp Leu Asn Gln Gln Leu Leu Glu Gly Gln Ala Ala Glu Ala Gln
355 360 365

Ser Arg Ile Pro Trp Asp Ser Thr Gln Val Ile Cys Lys Asp Trp Ser
370 375 380

Asn Leu Ala Gly Lys Asn Tyr Ile Ile Leu Asn Met Thr Glu Asn Ile
385 390 395 400

Asp Cys Glu Val Phe Arg Gln His Arg Gly Pro Gln Leu Leu Ala Leu
405 410 415

Val Glu Glu Val Leu Pro Arg His Gly Ser Gly His His Gly Ala Trp
420 425 430

His Ile Ser Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu Met
435 440 445

Thr Leu Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu Ser
450 455 460

Met Leu Gly Asp Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln Asn
465 470 475 480

Tyr Ser Thr Thr Ser Ser Cys Gln Ala Arg Ala Ser Gln Val Arg Ser
485 490 495

Asp Tyr Gly Thr Leu Phe Val Val Leu Val Val Ile Gly Ala Ile Cys
500 505 510

Ile Ile Ile Ile Ala Leu Gly Leu Leu Tyr Asn Cys Trp Gln Arg Arg
515 520 525

Leu Pro Lys Leu Lys His Val Ser His Gly Glu Glu Leu Arg Phe Val
530 535 540

Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp Val Ala Ser Asp Ser
545 550 555 560

Gln Ser Glu Met Gln Glu Lys His Pro Ser Leu Asn Gly Gly Gly Ala
565 570 575

Leu Asn Gly Pro Gly Ser Trp Gly Ala Leu Met Gly Gly Lys Arg Asp
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Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu
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<210> 2238

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Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu		
	325	330 335
Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln		
	340	345 350
Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr		
	355	360 365
Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu		
	370	375 380
Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val		
385	390	395 400
Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys		
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Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val		
	420	425 430

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<400> 2239

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Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser	
	35 40 45
Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn	
	50 55 60
Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys	
	65 70 75 80
Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro	
	85 90 95
Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu	
	100 105 110
Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val	
	115 120 125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
 130 135 140
 Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
 145 150 155 160
 Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
 165 170 175
 Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser
 180 185 190
 Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser
 195 200 205
 Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met
 210 215 220
 Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr
 225 230 235 240
 Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser
 245 250 255
 Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu
 260 265 270
 Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp
 275 280 285
 Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe
 290 295 300
 Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu
 305 310 315 320
 Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu
 325 330 335
 Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln
 340 345 350
 Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr
 355 360 365
 Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu
 370 375 380
 Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val
 385 390 395 400
 Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys
 405 410 415
 Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val
 420 425 430

Variable	Mean	SD	Min	Max
Age	38.5	12.5	25	65
Gender	Male	Female		
Marital Status	Married	Single		
Education	High School	College		
Occupation	Manager	Worker		
Income	\$30,000	\$40,000		
Health Status	Good	Fair		
Stress Level	Low	High		
Life Satisfaction	High	Low		
Resilience	High	Low		
Optimism	High	Low		
Gratitude	High	Low		
Forgiveness	High	Low		
Empathy	High	Low		
Compassion	High	Low		
Kindness	High	Low		
Generosity	High	Low		
Patience	High	Low		
Self-control	High	Low		
Emotional Stability	High	Low		
Psychological Well-being	High	Low		
Life Satisfaction	High	Low		
Meaning in Life	High	Low		
Positive Psychology	High	Low		
Flow	High	Low		
Resilience	High	Low		
Optimism	High	Low		
Gratitude	High	Low		
Forgiveness	High	Low		
Empathy	High	Low		
Compassion	High	Low		
Kindness	High	Low		
Generosity	High	Low		
Patience	High	Low		
Self-control	High	Low		
Emotional Stability	High	Low		
Psychological Well-being	High	Low		
Life Satisfaction	High	Low		
Meaning in Life	High	Low		
Positive Psychology	High	Low		
Flow	High	Low		
Resilience	High	Low		
Optimism	High	Low		
Gratitude	High	Low		
Forgiveness	High	Low		
Empathy	High	Low		
Compassion	High	Low		
Kindness	High	Low		
Generosity	High	Low		
Patience	High	Low		
Self-control	High	Low		
Emotional Stability	High	Low		
Psychological Well-being	High	Low		
Life Satisfaction	High	Low		
Meaning in Life	High	Low		
Positive Psychology	High	Low		
Flow	High	Low		
Resilience	High	Low		
Optimism	High	Low		
Gratitude	High	Low		
Forgiveness	High	Low		
Empathy	High	Low		
Compassion	High	Low		
Kindness	High	Low		
Generosity	High	Low		
Patience	High	Low		
Self-control	High	Low		
Emotional Stability	High	Low		
Psychological Well-being	High	Low		
Life Satisfaction	High	Low		
Meaning in Life	High	Low		
Positive Psychology	High	Low		
Flow	High	Low		
Resilience	High	Low		
Optimism	High	Low		
Gratitude	High	Low		
Forgiveness	High	Low		
Empathy	High	Low		
Compassion	High	Low		
Kindness	High	Low		
Generosity	High	Low		
Patience	High	Low		
Self-control	High	Low		
Emotional Stability	High	Low		
Psychological Well-being	High	Low		
Life Satisfaction	High	Low		
Meaning in Life	High	Low		
Positive Psychology	High	Low		
Flow	High	Low		
Resilience	High	Low		
Optimism	High	Low		
Gratitude	High	Low		
Forgiveness	High	Low		
Empathy	High	Low		
Compassion	High	Low		
Kindness	High	Low		
Generosity	High	Low		
Patience	High	Low		
Self-control	High	Low		
Emotional Stability	High	Low		
Psychological Well-being	High	Low		
Life Satisfaction	High	Low		

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[illegible]

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<210> 2243
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<212> PRT
<213> Homo sapiens
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1 5 10 15

<210> 2244

<400> 2244

0903245-04101

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Gln Pro Cys Leu Phe Leu Pro Thr Thr Thr Gly Leu Ser Ser Gly Tyr		
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His Thr Phe Leu Ser Gly Leu His Ser Cys His Ile Ser Phe Ala Thr		
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80		
Ala Ile Pro Gly Cys Leu		
85		
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15		
Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met		
20	25	30
Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser		
35	40	45
Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn		
50	55	60
Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp		
65	70	75
80		
Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn		
85	90	95
Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu		
100	105	110
Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile		
115	120	125
Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala		
130	135	140
Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys		
145	150	155
160		
Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr		
165	170	175
Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser		
180	185	190
Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile		
195	200	205

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.7	0.5	0	1
Education	12.5	1.5	10	15
Income	3500	1500	1000	7000
Health	0.8	0.4	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.6	0.5	0	1
Stress	0.7	0.5	0	1
Depression	0.4	0.5	0	1
Loneliness	0.5	0.5	0	1
Life Satisfaction	0.6	0.5	0	1
Quality of Life	0.7	0.5	0	1
Overall Health	0.8	0.4	0	1
Physical Health	0.9	0.3	0	1
Mental Health	0.7	0.5	0	1
Social Health	0.6	0.5	0	1
Emotional Health	0.5	0.5	0	1
Behavioral Health	0.4	0.5	0	1
Environmental Health	0.3	0.5	0	1
Occupational Health	0.2	0.4	0	1
Financial Health	0.1	0.3	0	1
Family Health	0.0	0.2	0	1
Community Health	0.0	0.1	0	1
National Health	0.0	0.0	0	1
Global Health	0.0	0.0	0	1
World Health	0.0	0.0	0	1
Universal Health	0.0	0.0	0	1
Human Health	0.0	0.0	0	1
Planetary Health	0.0	0.0	0	1
Ecosystem Health	0.0	0.0	0	1
Biodiversity Health	0.0	0.0	0	1
Climate Health	0.0	0.0	0	1
Environmental Quality	0.0	0.0	0	1
Air Quality	0.0	0.0	0	1
Water Quality	0.0	0.0	0	1
Soil Quality	0.0	0.0	0	1
Land Use	0.0	0.0	0	1
Urbanization	0.0	0.0	0	1
Ruralization	0.0	0.0	0	1
Deforestation	0.0	0.0	0	1
Reforestation	0.0	0.0	0	1
Conservation	0.0	0.0	0	1
Protection	0.0	0.0	0	1
Management	0.0	0.0	0	1
Policy	0.0	0.0	0	1
Law	0.0	0.0	0	1
Regulation	0.0	0.0	0	1
Standard	0.0	0.0	0	1
Guideline	0.0	0.0	0	1
Protocol	0.0	0.0	0	1
Procedure	0.0	0.0	0	1
Method	0.0	0.0	0	1
Technique	0.0	0.0	0	1
Approach	0.0	0.0	0	1
Strategy	0.0	0.0	0	1
Plan	0.0	0.0	0	1
Program	0.0	0.0	0	1
Project	0.0	0.0	0	1
Initiative	0.0	0.0	0	1
Effort	0.0	0.0	0	1
Attempt	0.0	0.0	0	1
Try	0.0	0.0	0	1
Test	0.0	0.0	0	1
Experiment	0.0	0.0	0	1
Research	0.0	0.0	0	1
Study	0.0	0.0	0	1
Investigation	0.0	0.0	0	1
Analysis	0.0	0.0	0	1
Assessment	0.0	0.0	0	1
Evaluation	0.0	0.0	0	1
Measurement	0.0	0.0	0	1
Quantification	0.0	0.0	0	1
Calculation	0.0	0.0	0	1
Computation	0.0	0.0	0	1
Operation	0.0	0.0	0	1
Process	0.0	0.0	0	1
Flow	0.0	0.0	0	1
Path	0.0	0.0	0	1
Route	0.0	0.0	0	1
Way	0.0	0.0	0	1
Method	0.0	0.0	0	1
Technique	0.0	0.0	0	1
Approach	0.0	0.0	0	1
Strategy	0.0	0.0	0	1

Met Arg Leu Pro Ala Trp Cys Arg His Thr Thr Leu Ala Ile Ser Cys
1 5 10 15

Pro Thr Ile Ser His Leu Gly Val Lys Pro Leu Ser Val Gly Trp Gly
35 40 45

Pro Thr Ser Ala Ser Pro Ala Ala Ala Pro Leu Arg Phe Trp Arg Pro
65 70 75 80

Arg Leu Val Thr Ala Arg Thr Thr Leu Ala Thr Gly Thr Pro Gly Leu
100 105 110

Ser Ala Arg Pro Arg Gln Arg Pro Cys Leu Leu Pro Val Leu Pro Arg
115 120 125

Arg Pro Ala Glu Leu Ser Val Ser Leu Glu Pro Ser Pro Gly Ser Ser
130 135 140

Gly Arg Gly Phe Leu Cys Leu Pro Phe Cys Lys Arg Asp Ala Asp Thr
145 150 155 160

Ser Leu Gly Gln Thr Leu Thr Ser Ser Cys Ser Leu Ser Ser Ile Leu
165 170 175

Val Gly Gly Thr Leu Arg Pro Arg Cys Ser Cys Pro Pro Phe Thr Gln
180 185 190

Arg Ser Ala Phe His Leu Arg Thr Pro His Asn Gln Tyr His His Gly
195 200 205

Ser Thr Ser Leu Ala Ser His
210 215

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<210> 2247
<211> 139
<212> PRT
<213> Homo sapiens
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<400> 2247
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn

1	5	10	15
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu	20	25	30
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala	35	40	45
Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu	50	55	60
Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys	65	70	75
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala	85	90	95
Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys	100	105	110
Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu	115	120	125
Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly	130	135	

<210> 2248
 <211> 363
 <212> PRT
 <213> Homo sapiens

<400> 2248

Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn	1	5	10	15
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu	20	25	30	
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala	35	40	45	
Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu	50	55	60	
Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys	65	70	75	80
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala	85	90	95	
Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys	100	105	110	
Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys	115	120	125	
Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn	130	135	140	

Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser
145 150 155 160

Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln
165 170 175

Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp
180 185 190

Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe
195 200 205

Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe
210 215 220

Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His
225 230 235 240

Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala
245 250 255

Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr
260 265 270

Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn
275 280 285

Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu
290 295 300

Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu
305 310 315 320

Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys
325 330 335

Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His
340 345 350

Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val
355 360

<210> 2249
<211> 85
<212> PRT
<213> Homo sapiens

<400> 2249
Met Ala Ala Gly Gly Cys Leu Leu Leu Leu Ala Phe Phe Pro Leu Ser
1 5 10 15

Arg Gly Ser His Phe His Leu Gln Lys Arg Ala Leu Ala Glu Ala Ser
20 25 30

Phe Glu Ala Thr Leu Cys Glu Leu Phe Val Ile Glu Thr Ala Ser Lys
35 40 45

Table 1. Demographic characteristics of the study population	
Age (years)	50.0 ± 10.0
Gender	
Male	50.0%
Female	50.0%
Education (years)	12.0 ± 2.0
Marital status	
Married	80.0%
Single	20.0%
Occupation	
Professional	30.0%
Managerial	20.0%
Technical	10.0%
Skilled	20.0%
Unskilled	20.0%
Income (USD/month)	1,500.0 ± 500.0
Health status	
Good	70.0%
Fair	20.0%
Poor	10.0%

1512

[illegible]

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<210> 2252
<211> 448
<212> PRT
<213> Homo sapiens
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Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn Lys Ala
20 25 30

Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser Gly Glu Ala Leu
50 55 60

Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His Val Pro Arg Leu His
65 70 75 80

Leu Lys Phe Ile Ala Gly Phe Gly Val Arg Leu Leu Ala Ala Ala Asn
85 90 95

Phe Thr Phe Lys Val Phe Arg Ala Pro Glu Pro Leu Glu Leu Thr Leu
100 105 110

Pro Val Glu Leu Leu Ala Asp Thr Arg Val Thr Gln Ser Ser Ile Arg
115 120 125

Thr Pro Val Val Ser Ile Ser Ala Cys Ser Leu Phe Ser Gly His Ala
130 135 140

Asn Glu Phe Asp Gly Ser Asn Ser Thr Ser His Ala Leu Leu Val Leu
145 150 155 160

Val Gln Lys His Ile Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser
165 170 175

Ile Ser Asn Leu Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile
180 185 190

Gly Leu Asn Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val
195 200 205

Ser Val Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala
210 215 220

45

[illegible]

<210> 2254

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2254

Met Pro Cys Gly Arg Gln His Leu Gln Asn Leu Asp Asp Ala Val Asn
1 5 10 15

Gly Ser Ala Trp Thr Ile Leu Leu Leu Thr Glu Asn Phe Leu Arg Asp
20 25 30

Thr Trp Cys Asn Phe Gln Phe Tyr Thr Ser Leu Met Asn Ser Val Asn
35 40 45

Arg Gln His Lys Tyr Asn Ser Val Ile Pro Met Arg Pro Leu Asn Asn
50 55 60

Pro Leu Pro Arg Glu Arg Thr Pro Phe Ala Leu Gln Thr Ile Asn Ala
65 70 75 80

Leu Glu Glu Glu Ser Arg Gly Phe Pro Thr Gln Val Glu Arg Ile Phe
85 90 95

Gln Glu Ser Val Tyr Lys Thr Gln Gln Thr Ile Trp Lys Glu Thr Arg
100 105 110

Asn Met Val Gln Arg Gln Phe Ile Ala
115 120

1515

[illegible]

[illegible]

Met Leu Phe His Tyr Asp Trp Ile Ser Ile Pro Leu Val Tyr Thr Gln
1 5 10 15

Arg Gln Phe Val Glu Pro Glu Ala Gly Ala Ala Lys Pro Gln Lys Leu
35 40 45

Tyr Val Pro Leu Thr Thr Leu Leu Gln Phe Phe Phe Tyr Ala Gly Trp
65 70 75 80

Asp Phe Glu Thr Asn Gln Leu Ile Asp Arg Asn Leu Gln Val Ser Leu
100 105 110

Leu Ser Val Asp Glu Met Tyr Gln Asn Leu Pro Pro Ala Glu Lys Asp
115 120 125

Gln Tyr Trp Asp Glu Asp Gln Pro Gln Pro Pro Tyr Thr Val Ala Thr
130 135 140

Ala Ala Glu Ser Leu Arg Pro Ser Phe Leu Gly Ser Thr Phe Asn Leu
145 150 155 160

Arg Met Ser Asp Asp Pro Glu Gln Ser Leu Gln Val Glu Ala Ser Pro
165 170 175

Gly Ser Gly Arg Pro Ala Pro Ala Ala Gln Thr Pro Leu Leu Gly Arg
180 185 190

Phe Leu Gly Val Gly Ala Pro Ser Pro Ala Ile Ser Leu Arg Asn Phe
195 200 205

Gly Arg Val Arg Gly Thr Pro Arg Pro Pro His Leu Leu Arg Phe Arg
210 215 220

Ala Glu Glu Gly Gly Asp Pro Glu Ala Ala Ala Arg Ile Glu Glu Glu
225 230 235 240

Ser Ala Glu Ser Gly Asp Glu Ala Leu Glu Pro
245 250

1516

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2
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<210> 2257
<211> 170
<212> PRT
<213> Homo sapiens
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1517.

Phe Leu Tyr Lys Lys His Ser Asp Ser Arg Phe Thr Thr Val Phe Ser
130 135 140

Thr Ala Pro Gln Ser Pro Tyr Asn Glu Asp Cys Val Leu Val Val Gly
145 150 155 160

Glu Glu Asn Glu Tyr Pro Val Gln Phe Asp
165 170

<210> 2258

<211> 595

<212> PRT

<213> Homo sapiens

<400> 2258

Met Leu Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Cys Gly Arg Val
1 5 10 15

Gly Ala Lys Glu Gln Lys Asp Tyr Leu Leu Thr Met Gln Lys Ser Val
20 25 30

Thr Val Gln Glu Gly Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr
35 40 45

Pro Gln Asn Gly Trp Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe
50 55 60

Arg Ala Gly Asp His Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn
65 70 75 80

Pro Ala Arg Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu
85 90 95

Gly Asp Pro Gln Asn Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg
100 105 110

Glu Ser Asp Ala Gly Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met
115 120 125

Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser
130 135 140

Gln Asp Leu Leu Ser Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr
145 150 155 160

Val Gln Glu Gly Leu Cys Val Ser Val Pro Cys Ser Val Leu Tyr Pro
165 170 175

His Tyr Asn Trp Thr Ala Ser Ser Pro Val Tyr Gly Ser Trp Phe Lys
180 185 190

Glu Gly Ala Asp Ile Pro Trp Asp Ile Pro Val Ala Thr Asn Thr Pro
195 200 205

Ser Gly Lys Val Gln Glu Asp Thr His Gly Arg Phe Leu Leu Leu Gly
210 215 220

Asp	Pro	Gln	Thr	Asn	Asn	Cys	Ser	Leu	Ser	Ile	Arg	Asp	Ala	Arg	Lys	225	230	235	240
Gly	Asp	Ser	Gly	Lys	Tyr	Tyr	Phe	Gln	Val	Glu	Arg	Gly	Ser	Arg	Lys	245	250	255	
Trp	Asn	Tyr	Ile	Tyr	Asp	Lys	Leu	Ser	Val	His	Val	Thr	Ala	Leu	Thr	260	265	270	
His	Met	Pro	Thr	Phe	Ser	Ile	Pro	Gly	Thr	Leu	Glu	Ser	Gly	His	Pro	275	280	285	
Arg	Asn	Leu	Thr	Cys	Ser	Val	Pro	Trp	Ala	Cys	Glu	Gln	Gly	Thr	Pro	290	295	300	
Pro	Thr	Ile	Thr	Trp	Met	Gly	Ala	Ser	Val	Ser	Ser	Leu	Asp	Pro	Thr	305	310	315	320
Ile	Thr	Arg	Ser	Ser	Met	Leu	Ser	Leu	Ile	Pro	Gln	Pro	Gln	Asp	His	325	330	335	
Gly	Thr	Ser	Leu	Thr	Cys	Gln	Val	Thr	Leu	Pro	Gly	Ala	Gly	Val	Thr	340	345	350	
Met	Thr	Arg	Ala	Val	Arg	Leu	Asn	Ile	Ser	Tyr	Pro	Pro	Gln	Asn	Leu	355	360	365	
Thr	Met	Thr	Val	Phe	Gln	Gly	Asp	Gly	Thr	Ala	Ser	Thr	Thr	Leu	Arg	370	375	380	
Asn	Gly	Ser	Ala	Leu	Ser	Val	Leu	Glu	Gly	Gln	Ser	Leu	His	Leu	Val	385	390	395	400
Cys	Ala	Val	Asp	Ser	Asn	Pro	Pro	Ala	Arg	Leu	Ser	Trp	Thr	Trp	Gly	405	410	415	
Ser	Leu	Thr	Leu	Ser	Pro	Ser	Gln	Ser	Ser	Asn	Leu	Gly	Val	Leu	Glu	420	425	430	
Leu	Pro	Arg	Val	His	Val	Lys	Asp	Glu	Gly	Glu	Phe	Thr	Cys	Arg	Ala	435	440	445	
Gln	Asn	Pro	Leu	Gly	Ser	Gln	His	Ile	Ser	Leu	Ser	Leu	Ser	Leu	Gln	450	455	460	
Asn	Glu	Tyr	Thr	Gly	Lys	Met	Arg	Pro	Ile	Ser	Gly	Val	Thr	Leu	Gly	465	470	475	480
Ala	Phe	Gly	Gly	Ala	Gly	Ala	Thr	Ala	Leu	Val	Phe	Leu	Tyr	Phe	Cys	485	490	495	
Ile	Ile	Phe	Val	Val	Val	Arg	Ser	Cys	Arg	Lys	Lys	Ser	Ala	Arg	Pro	500	505	510	
Ala	Val	Gly	Val	Gly	Asp	Thr	Gly	Met	Glu	Asp	Ala	Asn	Ala	Val	Arg	515	520	525	
Gly	Ser	Ala	Ser	Gln	Gly	Pro	Leu	Ile	Glu	Ser	Pro	Ala	Asp	Asp	Ser	530	535	540	

Pro Pro His His Ala Pro Pro Ala Leu Ala Thr Pro Ser Pro Glu Glu
545 550 555 560

Gly Glu Ile Gln Tyr Ala Ser Leu Ser Phe His Lys Ala Arg Pro Gln
565 570 575

Tyr Pro Gln Glu Gln Glu Ala Ile Gly Tyr Glu Tyr Ser Glu Ile Asn
580 585 590

Ile Pro Lys
595

<210> 2259

<211> 274

<212> PRT

<213> Homo sapiens

<400> 2259

Met Ser Ser Asn Gly Ile Pro Glu Cys Tyr Ala Glu Glu Asp Glu Phe
1 5 10 15

Ser Gly Leu Glu Thr Asp Thr Ala Val Pro Thr Glu Glu Ala Tyr Val
20 25 30

Ile Tyr Asp Glu Asp Tyr Glu Phe Glu Thr Ser Arg Pro Pro Thr Thr
35 40 45

Thr Glu Pro Ser Thr Thr Ala Thr Thr Pro Arg Val Ile Pro Glu Glu
50 55 60

Gly Ala Ile Ser Ser Phe Pro Glu Glu Glu Phe Asp Leu Ala Gly Arg
65 70 75 80

Lys Arg Phe Val Ala Pro Tyr Val Thr Tyr Leu Asn Lys Asp Pro Ser
85 90 95

Ala Pro Cys Ser Leu Thr Asp Ala Leu Asp His Phe Gln Val Asp Ser
100 105 110

Leu Asp Glu Ile Ile Pro Asn Asp Leu Lys Lys Ser Asp Leu Pro Pro
115 120 125

Gln His Ala Pro Arg Asn Ile Thr Val Val Ala Val Glu Gly Cys His
130 135 140

Ser Phe Val Ile Val Asp Trp Asp Lys Ala Thr Pro Gly Asp Val Val
145 150 155 160

Thr Gly Tyr Leu Val Tyr Ser Ala Ser Tyr Glu Asp Phe Ile Arg Asn
165 170 175

Lys Trp Ser Thr Gln Ala Ser Ser Val Thr His Leu Pro Ile Glu Asn
180 185 190

Leu Lys Pro Asn Thr Arg Tyr Tyr Phe Lys Val Gln Ala Gln Asn Pro
195 200 205

His Gly Tyr Gly Pro Ile Ser Pro Ser Val Ser Phe Val Thr Glu Ser
1520

0983345-04301

210 215 220

Asp Asn Pro Leu Leu Val Val Arg Pro Pro Gly Gly Glu Pro Ile Trp
 225 230 235 240

Ile Pro Phe Ala Phe Lys His Asp Pro Ser Tyr Thr Asp Cys His Gly
 245 250 255

Arg Gln Tyr Val Lys Arg Thr Leu Val Ser Lys Val Arg Gly Ser Trp
 260 265 270

Ser Leu

<210> 2260
 <211> 468
 <212> PRT
 <213> Homo sapiens

<400> 2260

Met Pro Ala Leu His Thr Leu Asn Leu Asp His Asn Leu Ile Asp Ala
 1 5 10 15

Leu Pro Pro Gly Ala Phe Ala Gln Leu Gly Gln Leu Ser Arg Leu Asp
 20 25 30

Leu Thr Ser Asn Arg Leu Ala Thr Leu Ala Pro Asp Pro Leu Phe Ser
 35 40 45

Arg Gly Arg Asp Ala Glu Ala Ser Pro Ala Pro Leu Val Leu Ser Phe
 50 55 60

Ser Gly Asn Pro Leu His Cys Asn Cys Glu Leu Leu Trp Leu Arg Arg
 65 70 75 80

Leu Ala Arg Pro Asp Asp Leu Glu Thr Cys Ala Ser Pro Pro Gly Leu
 85 90 95

Ala Gly Arg Tyr Phe Trp Ala Val Pro Glu Gly Glu Phe Ser Cys Glu
 100 105 110

Pro Pro Leu Ile Ala Arg His Thr Gln Arg Leu Trp Val Leu Glu Gly
 115 120 125

Gln Arg Ala Thr Leu Arg Cys Arg Ala Leu Gly Asp Pro Ala Pro Thr
 130 135 140

Met His Trp Val Gly Pro Asp Asp Arg Leu Val Gly Asn Ser Ser Arg
 145 150 155 160

Ala Arg Ala Phe Pro Asn Gly Thr Leu Glu Ile Gly Ala Thr Gly Ala
 165 170 175

Gly Asp Ala Gly Gly Tyr Thr Cys Ile Ala Thr Asn Pro Ala Gly Glu
 180 185 190

Ala Thr Ala Arg Val Glu Leu Arg Val Leu Ala Leu Pro His Gly Gly
 195 200 205

1521

05033245 "04.1201

Asn Ser Ser Ala Glu Gly Gly Arg Pro Gly Pro Ser Asp Ile Ala Ala
 210 215 220
 Ser Ala Arg Thr Ala Ala Glu Gly Glu Gly Thr Leu Glu Ser Glu Pro
 225 230 235 240
 Ala Val Gln Val Thr Glu Val Thr Ala Thr Ser Gly Leu Val Ser Trp
 245 250 255
 Gly Pro Gly Arg Pro Ala Asp Pro Val Trp Met Phe Gln Ile Gln Tyr
 260 265 270
 Asn Ser Ser Glu Asp Glu Thr Leu Ile Tyr Arg Ile Val Pro Ala Ser
 275 280 285
 Ser His His Phe Leu Leu Lys His Leu Val Pro Gly Ala Asp Tyr Asp
 290 295 300
 Leu Cys Leu Leu Ala Leu Ser Pro Ala Ala Gly Pro Ser Asp Leu Thr
 305 310 315 320
 Ala Thr Arg Leu Leu Gly Cys Ala His Phe Ser Thr Leu Pro Ala Ser
 325 330 335
 Pro Leu Cys His Ala Leu Gln Ala His Val Leu Gly Gly Thr Leu Thr
 340 345 350
 Val Ala Val Gly Gly Val Leu Val Ala Ala Leu Leu Val Phe Thr Val
 355 360 365
 Ala Leu Leu Val Arg Gly Arg Gly Ala Gly Asn Gly Arg Leu Pro Leu
 370 375 380
 Lys Leu Ser His Val Gln Ser Gln Thr Asn Gly Gly Pro Ser Pro Thr
 385 390 395 400
 Pro Lys Ala His Pro Pro Arg Ser Pro Pro Pro Arg Pro Gln Arg Ser
 405 410 415
 Cys Ser Leu Asp Leu Gly Asp Ala Gly Cys Tyr Gly Tyr Ala Arg Arg
 420 425 430
 Leu Gly Gly Ala Trp Ala Arg Arg Ser His Ser Val His Gly Gly Leu
 435 440 445
 Leu Gly Ala Gly Cys Arg Gly Val Gly Gly Ser Ala Glu Arg Leu Glu
 450 455 460
 Glu Ser Val Val
 465

<210> 2261
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 2261

Val Glu Glu Asp Gly Lys Gly Lys Arg Lys Asn Glu Lys Ala Gly Ser
130 135 140

Lys Arg Lys Lys Ser Tyr Thr Ser Lys Lys Ser Ser Lys Gln Ser Arg
145 150 155 160

Lys Ser Pro Gly Asp Glu Asp Asp Lys Asp Cys Lys Glu Glu Glu Asn
165 170 175

Lys Ser Ser Ser Glu Gly Gly Asp Ala Gly Asn Asp Thr Arg Asn Thr
180 185 190

Thr Ser Asp Leu Gln Lys Thr Ser Glu Gly Thr
195 200

<210> 2265
<211> 253
<212> PRT
<213> Homo sapiens

<400> 2265
Met Arg Ser Gly Lys Met Ala Pro Lys Pro Gln Ser Arg Cys Thr Ser
1 5 10 15

Thr Arg Ser Ala Gly Glu Ala Pro Ser Glu Asn Gln Ser Pro Ser Lys
20 25 30

Gly Pro Glu Glu Ala Ser Ser Glu Val Gln Asp Thr Asn Glu Val His
35 40 45

Val Pro Gly Asp Gln Asp Glu Pro Gln Thr Leu Gly Lys Lys Gly Ser
50 55 60

Lys Asn Asn Ile Ser Val Tyr Met Thr Leu Asn Gln Lys Lys Ser Asp
65 70 75 80

Ser Ser Ser Ala Ser Val Cys Ser Ile Asp Ser Thr Asp Asp Leu Lys
85 90 95

Ser Ser Asn Ser Glu Cys Ser Ser Ser Glu Ser Phe Asp Phe Pro Pro
100 105 110

Gly Ser Met His Ala Pro Ser Thr Ser Ser Thr Ser Ser Ser Lys
115 120 125

Glu Glu Lys Lys Leu Ser Asn Ser Leu Lys Met Lys Val Phe Ser Lys
130 135 140

Asn Val Ser Lys Cys Val Thr Pro Asp Gly Arg Thr Ile Cys Val Gly
145 150 155 160

Asp Ile Val Trp Ala Lys Ile Tyr Gly Phe Pro Trp Trp Pro Ala Arg
165 170 175

Ile Leu Thr Ile Thr Val Ser Arg Lys Asp Asn Gly Leu Leu Val Arg
180 185 190

Gln Glu Ala Arg Ile Ser Trp Phe Gly Ser Pro Thr Thr Ser Phe Leu
1525

003345-041001
T02T40"SH2EE860

195	200	205
Ala Leu Ser Gln Leu Ser Pro Phe Leu Glu Asn Phe Gln Ser Arg Phe		
210	215	220
Asn Lys Lys Arg Lys Gly Leu Tyr Arg Lys Ala Ile Thr Glu Ala Ala		
225	230	235 240
Lys Ala Ala Lys Gln Leu Thr Pro Glu Val Arg Ala Cys		
245	250	
<210> 2266		
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<213> Homo sapiens		
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Met Pro His Ala Phe Lys Pro Gly Asp Leu Val Phe Ala Lys Met Lys		
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Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Asp Ile Ala Asp Gly Ala		
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Val Lys Pro Pro Pro Asn Lys Tyr Pro Ile Phe Phe Phe Gly Thr His		
35	40	45
Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro Tyr Asp Lys Cys		
50	55	60
Lys Asp Lys Tyr Gly Lys Pro Asn Lys Arg Lys Gly Phe Asn Glu Gly		
65	70	75 80
Leu Trp Glu Ile Gln Asn Asn Pro His Ala Ser Tyr Ser Ala Pro Pro		
85	90	95
Pro Val Ser Ser Ser Asp Ser Glu Ala Pro Glu Ala Asn Pro Ala Asp		
100	105	110
Gly Ser Asp Ala Asp Glu Asp Asp Glu Asp Arg Gly Val Met Ala Val		
115	120	125
Thr Ala Val Thr Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser		
130	135	140
Asp Ser Asp Lys Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro		
145	150	155 160
Ala Leu Lys Met Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp		
165	170	175
Leu Asp Gln Ala Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser		
180	185	190
Ser Ser Glu Ser Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys		
195	200	205
Lys Ala Ala Val Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys		
210	215	220

His Phe Asn Met Phe Thr Gly Lys Phe Tyr Cys Tyr Val Pro Gly Leu
 180 185 190
 Tyr Phe Phe Ser Leu Asn Val His Thr Trp Asn Gln Lys Glu Thr Tyr
 195 200 205
 Leu His Ile Met Lys Asn Glu Glu Glu Val Ala Ile Leu Phe Ala Gln
 210 215 220
 Val Gly Asp Arg Ser Ile Met Gln Ser Gln Ser Leu Met Leu Glu Leu
 225 230 235 240
 Arg Glu Gln Asp Gln Val Trp Val Arg Leu Tyr Lys Gly Glu Arg Glu
 245 250 255
 Asn Ala Ile Phe Ser Glu Glu Leu Asp Thr Tyr Ile Thr Phe Ser Gly
 260 265 270
 Tyr Leu Val Lys His Ala Thr Glu Pro
 275 280

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